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SECOND ANNUAL REPORT

OF THE

North Carolina Sanatorium for the Treatment of Tuberculosis

UNDER CONTROL OF STATE BOARD OF HEALTH

SANATORIUM, N. C.

1915

RALEIGH
EDWARDS & BROUGHTON PRINTING CO.
STATE PRINTERS

SIGNS OF TUBERCULOSIS

A hemorrhage of the lungs means tuberculosis without exception.

A subnormal temperature (by the thermometer) in the morning and a rise of temperature in the afternoon means tuberculosis 99 times in 100, and often the other time, too.

A low blood pressure, taken with the proper instrument, is suggestive of tuberculosis.

A cough that lasts more than three weeks should suggest tuberculosis and should call for an examination by a competent physician.

The tubercle bacillus in the sputum is a positive sign of tuberculosis, but the diagnosis should be made long before the bacillus can be found.

The earlier the diagnosis of tuberculosis is made, the greater are the chances for recovery. The later in its course the disease is found, the less are the chances for recovery.

NORTH CAROLINA SANATORIUM

FOR THE TREATMENT OF TUBERCULOSIS

(Under the control of the State Board of Health)

PERSONNEL

MEMBERS STATE BOARD OF HEALTH

Dr. J. Howell Way, *President* ..... Waynesville
Dr. Richard H. Lewis ..... Raleigh
Col. J. L. Ludlow ..... Winston-Salem
Dr. W. O. Spencer ..... Winston-Salem
Dr. Thomas E. Anderson ..... Statesville
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Dr. Edward J. Wood ..... Wilmington
Dr. F. R. Harris ..... Henderson
Dr. Cyrus Thompson ..... Jacksonville

Dr. W. S. Rankin, *Executive Secretary*, Raleigh, N. C.

Superintendent ..... L. B. McBrayer, M.D.
Assistant Superintendent ..... P. P. McCain, M.D.
Assistant Physician ..... S. W. Thompson, Jr., M.D.
Private Secretary to Superintendent ..... Miss R. Withers
Head Nurse ..... Miss Mamie O'Kelly
Assistant Head Nurse ..... Miss Annabel Crawford
Cashier ..... V. F. Hill
Purchasing Agent ..... J. M. Clark
Farmer ..... J. A. Boone

EXTENSION DEPARTMENT OF THE NORTH CAROLINA SANATORIUM FOR THE TREATMENT OF TUBERCULOSIS

Bureau of Tuberculosis, State Board of Health

Chief of Bureau ..... L. B. McBrayer, M.D.
Assistant Chief of Bureau ..... P. P. McCain, M.D.
Office Secretary ..... Miss R. Withers
Clerk ..... R. M. Rice
Stenographer ..... Miss B. Withers

82692

STATE RED CROSS SEAL COMMISSION

MRS. C. C. HOOK, *Chairman*, Charlotte
MR. HAMILTON C. JONES, *Treasurer*, Charlotte
DR. OTHO ROSS, Charlotte
MRS. G. M. FINGER, Charlotte
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COL. J. L. LUDLOW, Winston-Salem
MRS. J. L. WETMORE, Arden

DR. L. B. MCBRAYER, Executive Secretary

MISS R. WITHERS, Assistant Secretary

LETTER OF TRANSMITTAL

Dr. W. S. Rankin, *Secretary,*
State Board of Health,
Raleigh, N. C.

My dear Doctor:—I hereby transmit to you, and through you to the State Board of Health and the Governor and General Assembly, a report, being the second annual report of the North Carolina Sanatorium for the Treatment of Tuberculosis, for the year 1915, covering only financial statement and medical report.

Very respectfully yours,

L. B. McBrayer,
Superintendent.

MEDICAL REPORT

DEFINITIONS OF TERMS EMPLOYED

On Admission

These definitions indicate the furthest extent of disease and the greatest severity of symptoms that a patient can present and still belong to the stage defined. All patients beyond the incipient stage fall under the moderately advanced stage unless the physical signs and symptoms exceed those of the moderately advanced stage, when they should be classified as far advanced.

Incipient.

Slight or no constitutional symptoms (including, particularly, gastric or intestinal disturbance or rapid loss of weight). Slight or no elevation of temperature or acceleration of pulse at any time during the twenty-four hours.

Expectoration usually small in amount or absent. Tubercle bacilli may be present or absent.

Slight infiltration limited to the apex of one or both lungs or a small part of one lobe.

No tuberculous complications.

Moderately Advanced.

No marked impairment of function, either local or constitutional.

Localized consolidation moderate in extent with little or no evidence of cavity formation; or infiltration more extensive than under incipient. No serious complications.

Far Advanced.

Marked impairment of function, local and constitutional.

Marked consolidation of an entire lobe.

Or disseminated areas of beginning cavity formation.

Or serious complications.

Miliary Tuberculosis.

On Discharge

Arrested.

All constitutional symptoms and expectoration with bacilli absent for a period of six months; the physical signs to be those of a healed lesion.

Apparently Arrested.

All constitutional symptoms and expectoration with bacilli absent for a period of three months; the physical signs to be those of a healed lesion.

Quiescent.

Absence of all constitutional symptoms, expectoration and bacilli may or may not be present; physical signs stationary or retrogressive. The foregoing conditions to have existed for at least two months.

Improved.

Constitutional symptoms lessened or entirely absent; physical signs improved or unchanged; cough and expectoration with bacilli usually present.

Unimproved.

All essential symptoms and signs unabated or increased.

TERMS USED IN DEFINITION OF "INCIPIENT"

1. *Slight Constitutional Disturbance.*

Slight loss of appetite, of strength, of weight; lassitude; possibly slight acceleration of pulse or possibly slight elevation of temperature. The impairment of health may be so slight that the patient does not look or feel sick in the ordinary sense of the word.

2. *Slight Elevation of Temperature.*

Maximum temperature after rest for one hour, never goes 99.5 to 100 degrees F. by mouth (or 100.5 per rectum).

3. *Slight Acceleration of Pulse.*

Maximum pulse rate not over 90 after rest for one hour, sitting or lying, except when due to causes other than tuberculosis.

4. *Absence of Tubercle Bacilli.*

Each monthly examination (if the sputum be negative), to consist of a careful microscopic examination, with a mechanical stage, of two smears, devoting at least three minutes to each smear, made from selected particles (at least six from different parts) of the sputum on each of three successive days. The morning sputum should always be obtained, or, better, the minute bits that some arrested patients raise at very infrequent intervals. It is not yet deemed wise to insist on digestion and centrifugalization, or on inoculation of guinea-pigs.

5. *Infiltration.*

Physical signs of slight prominence of the clavicle, lessened movement of chest, narrowing of apical resonance with lessened movement of base of lung, slight or no change in resonance, distant or loud and harsh breathing, with or without some change in the rhythm (*i. e.*, prolonged expiration); vocal resonance possibly slightly increased; or fine or moderately coarse râles present or absent. If sputum contains tubercle bacilli, any one of these.

6. *Apex.*

That portion of the lung situated above the clavicle and the third vertebral spine.

7. *Small Part of One Lobe.*

An area of one or two intercostal spaces, or an area not exceeding 60 to 80 sq. cm. in extent, according to the size of the patient.

TERMS USED IN DEFINITION OF "MODERATELY ADVANCED"

8. *Marked Impairment of Function, Either Local or Constitutional.*

Local: Marked dyspnea on exertion, limiting seriously the patient's activity.

Constitutional: Marked weakness, anorexia, tachycardia.

9. *Moderate Extent of Localized Consolidation.*

An area of one-half lobe or less, but may involve both apices; marked dullness, bronchial or decidedly broncho-vesicular breathing; markedly increased vocal resonance; râles usually present. These signs are to be sharply limited as to area instead of gradually shading into normal physical signs.

10. *Evidences of Destruction of Tissue.*

Presence of tubercle bacilli or elastic fibers in the sputum or the presence of the physical signs of a cavity. There are no absolutely certain physical signs of cavity, but a combination of any four of the following signs is to be taken as indicative of a cavity: (1) cracked-pot note; (2) amphoric breathing; (3) intense whispering pectoriloquy; (4) a veiled puff or post-tussive suction; (5) bubbling or resonant râles. "Physical signs of softening" do not admit of any definition apart from that of cavity formation, and the terms should not be used.

11. *Disseminated Fibroid Deposits.*

More or less localized areas of fibrous tissue, producing on physical examination, some change or dullness in the percussion note, more or less increase of vocal resonance, harsh, suppressed or broncho-vesicular breathing, râles sibilant or sonorous usually, but at times fine and moderately coarse.

12. *Serious Complications.*

These should be limited to tuberculous complications, such as meningitis, pharyngitis, laryngitis (except slight thickening in the posterior interarytenoid space, and superficial ulceration of a vocal chord), enteritis, peritonitis, nephritis, cystitis, orchitis, adenitis (unless very slight), etc.

TABLE No. 1.

Total number of patients treated during year	268
Total number of patients in Sanatorium November 30, 1915	80
Not tubercular	1
Number patients to be reported on	187

TABLE No. 2.—19 PATIENTS WHO STAYED LESS THAN 30 DAYS.

Condition on Admission	Condition on Discharge					
	Arrested	Apparently Arrested	Quiescent	Improved	Unimproved	Died
Incipient 2				2		
Moderately advanced 7				6	1	
Far advanced 10				5	1	4
Acute tuberculosis						
Totals 19				13	2	4

Average stay	19.21	Days	Number gained weight	10	
Longest stay	29	Days	Average gain	3.5	Lbs.
Shortest stay	4	Days	Largest gain	6.25	Lbs.
			Smallest gain	.75	Lbs.
			Number lost weight	4	
			Average loss	1.94	Lbs.
			Largest loss	3	Lbs.
			Smallest loss	1	Lbs.
			Not weighed	3	
			Stationary	2	

TABLE No. 3.—62 PATIENTS WHO STAYED FROM 30 TO 89 DAYS.

Condition on Admission	Condition on Discharge					
	Arrested	Apparently Arrested	Quiescent	Improved	Unimproved	Died
Incipient 10			5	5		
Moderately advanced 30			6	22	2	
Far advanced 21			2	12	6	1
Acute tuberculosis 1					1	
Totals 62			13	39	9	1

Average stay	57.74	Days	Number gained weight	50	
Longest stay	88	Days	Average gain	8.68	Lbs.
Shortest stay	30	Days	Largest gain	31.5	Lbs.
			Smallest gain	.5	Lbs.
			Number lost weight	12	
			Average loss	4.08	Lbs.
			Largest loss	14.50	Lbs.
			Smallest loss	.75	Lbs.

TABLE No. 4—106 PATIENTS WHO STAYED 90 DAYS OR MORE.

Condition on Admission	Condition on Discharge					
	Arrested	Apparently Arrested	Quiescent	Improved	Unimproved	Died
Incipient 19	5	9	4	1		
Moderately advanced 50	5	8	25	9	2	1
Far advanced 37		2	12	13	8	2
Acute tuberculosis						
Totals 106	10	19	41	23	10	3

Average stay	216.96	Days
Longest stay	618	Days
Shortest stay	90	Days

Number lost weight	19	
Average loss	8.93	Lbs.
Largest loss	22.25	Lbs.
Smallest loss	.50	Lbs.
Stationary	1	
Number gained weight	85	
Average gain	14.34	Lbs.
Largest gain	40	Lbs.
Smallest gain	.5	Lbs.
Not weighed	1	

TABLE No. 5.—EIGHT PATIENTS GIVEN TUBERCULIN TEST.

Positive	7
Negative	1
Total	8

TABLE No. 6—HISTORY OF HEMORRHAGE.

Negative		120
Positive 62	Previous	45
	During residence only	7
	Previous and during residence	15
Total		187

TABLE No. 7—COMPLICATIONS.

Adenitis	1	Laryngitis	20
Anal fistula	13	Mania	1
Appendicitis, chronic	1	Mitral regurgitation	2
Arteriosclerosis	1	Nephritis, chronic parenchymatous	3
Bronchitis	10	Otitis media	6
Broncho-pneumonia	3	Parotitis	1
Deafness, congenital	1	Peritonitis	2
Diabetes	1	Pleurisy with effusion	3
Eczema	1	Pregnancy	1
Enteritis	6	Pyothorax	2
Facial Neuralgia	1	Sciatica	1
General paresis	1	Spondylitis	1
Herpes zoster	1	Spontaneous pneumothorax	2

TABLE No. 8—SEX AND AGE.

	15–19	20–29	30–39	40–49	50–59	60–69	Total
Male	14	23	26	13	8	2	116
Female	10	33	17	4	5	2	71
Totals	24	86	43	17	13	4	187

TABLE No. 9—CIVIL CONDITION.

Single	100
Married	81
Widowed	6
Total	187

TABLE No. 10—NATIONALITY.

American	186
Hungarian	1
Total	187

TABLE No. 11—OCCUPATIONS.

Baker's helper	1	Liveryman	1
Barber	1	Lumberman	3
Boarding house keeper	1	Machinist	1
Bookkeeper	6	Manufacturer, furniture	1
Book-binder	1	Medical student	2
Brickmason	2	Merchant	12
Carpenter	2	Messenger boy	1
Civil engineer	1	Minister	3
Clerk in store	7	Motorman, street car	1
Clerk of Superior Court	1	Painter	1
Cotton mill operative	5	Pharmacist	4
Cotton weigher	1	Photographer	1
Deputy clerk of Superior Court	1	Postoffice clerk	1
Dressmaker	1	Proprietor laundry	1
Drug clerk	3	Proprietor pressing club	1
Editor newspaper	1	Proprietor sawmill	1
Electric engineer	1	Pupil nurse	1
Electrician	1	Railroad clerk	2
Farmer	26	Railroad conductor	1
Fireman, stationary engine	1	Railroad flagman	1
Foreman veneer plant	1	Railroad station agent	1
Hotel clerk	1	Real estate dealer	1
Housewife	32	Revenue officers	1
Housework at home	13	Stenographer	7
Lawyer	1	Student	17
Life guard	1	Teacher	5
Lineman (Tel.)	1	Telegraph operator	1
		Total	187

TABLE 12.—TOWNS FROM WHICH THE 187 PATIENTS CAME.

Ahoskie	2	Gastonia	2	Pineville	2
Apex	1	George	1	Pittsboro	1
Asheboro	2	Gibson	1	Porters	1
Aulander	1	Goldsboro	2	Princeton	2
Bethel	2	Graham	2	Raeford	1
Bladenboro	1	Greensboro	6	Raleigh	6
Broadway	1	Greenville	3	Red Springs	1
Burgaw	1	Hamlet	1	Reidsville	2
Burlington	3	Henderson	2	Roanoke Rapids	1
Buxton	1	Hickory	1	Rock Hill	1
Cameron	1	High Point	4	Rockingham	1
Conetoe	1	High Tower	1	Rocky Mount	2
Cary	1	Hillsboro	2	Rose Hill	1
Chapel Hill	2	Huntersville	1	Roxobel	1
Charlotte	7	Huntley	1	Salisbury	1
China Grove	1	Janeiro	1	Sanford	3
Cliffside	1	Kanoy	1	Sherrill's Ford	1
Concord	4	Kings Mountain	1	Siler City	1
Cooper	1	Knightdale	1	Sparta	1
Corinth	1	Lillington	1	Staley	1
Cove City	1	Manchester	1	Statesville	7
Creedmoor	3	Manson	1	Stokesdale	1
Danbury	1	Manteo	1	Tobaccoville	1
Daybook	1	Marshville	1	Troutman	1
Denver	1	Maxton	1	Union Mills	1
Dobson	1	McAdenville	1	Wadesboro	1
Dunn	1	McCall, S. C.	1	Walnut Cove	1
Durham	8	Milne, Ga.	1	Walstonburg	1
Edenton	1	Monroe	2	Warsaw	1
Elizabeth City	3	Mount Airy	1	Washington	1
Emerson	1	Mount Gilead	2	Weldon	1
Enfield	1	Mount Holly	1	Wilson	2
Etowah	1	Mount Olive	1	Wilkesboro	1
Everetts	1	Mount Pleasant	2	Wilmington	1
Fairfield	1	New Berlin	1	Windsor	1
Fairmont	1	New Bern	2	Winston-Salem	6
Falkland	1	New Hill	1	Woodland	1
Farmville	1	Norwood	1	Yadkinville	1
Fayetteville	2	Oxford	1		
Fremont	1	Pinehurst	1	Total	187

TABLE No. 13—COUNTIES FROM WHICH THE 187 PATIENTS CAME.

Alamance	5	Harnett	2	Rockingham	2
Alleghany	1	Halifax	3	Rutherford	2
Anson	1	Henderson	1	Sampson	1
Beaufort	2	Hertford	2	Scotland	1
Bertie	3	Hyde	1	Stanly	1
Bladen	2	Iredell	8	Stokes	2
Cabarrus	6	Johnston	2	Surry	2
Catawba	2	Lee	4	Union	3
Caswell	1	Lincoln	1	Vance	2
Chatham	3	Martin	1	Wake	10
Chowan	1	Mecklenburg	10	Warren	1
Cleveland	1	Moore	2	Wayne	4
Columbus	1	Montgomery	2	Wilson	2
Craven	3	New Hanover	1	Wilkes	1
Cumberland	5	Northampton	2	Yancey	1
Dare	2	Orange	4	Yadkin	1
Durham	8	Pitt	7	SOUTH CAROLINA:	
Duplin	2	Pender	1	Marlboro	1
Edgecombe	3	Pamlico	1	York	1
Forsyth	7	Pasquotank	3	GEORGIA:	
Gaston	4	Randolph	4	Pike	1
Granville	4	Richmond	2		—
Greene	1	Robeson	3	Total	187
Guilford	11	Rowan	2		

AFTER RESULTS OF PATIENTS DISCHARGED FROM THE SANATORIUM FROM DECEMBER, 1913, TO DECEMBER, 1914.

INCIPIENT.

Condition on Discharge	Condition December 1, 1915	Without Tuberculin	With Tuberculin	Total
Arrested 0	Living and working	0	0	0
	Living and not working	0	0	0
	Dead	0	0	0
	Lost	0	0	0
Apparently Arrested 2	Living and working	1	1	2
	Living and not working	0	0	0
	Dead	0	0	0
	Lost	0	0	0
Quiescent 4	Living and working	4	0	4
	Living and not working	0	0	0
	Dead	0	0	0
	Lost	0	0	0
Improved 3	Living and working	1	0	1
	Living and not working	0	0	0
	Dead	0	0	0
	Lost	2	0	2
Unimproved 0	Living and working	0	0	0
	Living and not working	0	0	0
	Dead	0	0	0
	Lost	0	0	0
Total 9	Living and working	--	--	7
	Living and not working	--	--	0
	Dead	--	--	0
	Lost	--	--	2

AFTER RESULTS—*Continued*

MODERATELY ADVANCED.

Condition on Discharge	Condition December 1, 1915	Without Tuberculin	With Tuberculin	Total
Arrested 2	Living and working	1	0	1
	Living and not working	0	1	1
	Dead	0	0	0
	Lost	0	0	0
Apparently Arrested 5	Living and working	5	0	5
	Living and not working	0	0	0
	Dead	0	0	0
	Lost	0	0	0
Quiescent 16	Living and working	9	0	9
	Living and not working	5	0	5
	Dead	0	1	1
	Lost	1	0	1
Improved 47	Living and working	25	0	25
	Living and not working	10	0	10
	Dead	9	0	9
	Lost	3	0	3
Unimproved 2	Living and working	1	0	1
	Living and not working	0	0	0
	Dead	1	0	1
	Lost	0	0	0
Total 72	Living and working	--	--	41
	Living and not working	--	--	16
	Dead	--	--	11
	Lost	--	--	4

AFTER RESULTS—*Continued*

FAR ADVANCED.

Condition on Discharge	Condition December 1, 1915	Without Tuberculin	With Tuberculin	Total
Arrested 0	Living and working	0	0	0
	Living and not working	0	0	0
	Dead	0	0	0
	Lost	0	0	0
Apparently Arrested 2	Living and working	1	0	1
	Living and not working	1	0	1
	Dead	0	0	0
	Lost	0	0	0
Quiescent 1	Living and working	0	0	0
	Living and not working	0	1	1
	Dead	0	0	0
	Lost	0	0	0
Improved 24	Living and working	1	1	2
	Living and not working	6	0	6
	Dead	16	0	16
	Lost	0	0	0
Unimproved 33	Living and working	0	0	0
	Living and not working	0	0	0
	Dead	33	0	33
	Lost	0	0	0
Total 60	Living and working	--	--	3
	Living and not working	--	--	8
	Dead	--	--	49
	Lost	--	--	0

In addition to the regular Sanatorium work, the medical staff has examined without charge 232 outside patients for diagnosis and consultation. One hundred and sixty of these were examined here at the Sanatorium and 72 were examined at Wadesboro in connection with the silk mill investigation, mentioned in 1916 annual report.

FINANCIAL STATEMENT

December 1, 1915

ASSETS

Appropriation account		$ 65,000.23
Real estate—Farm		11,048.71
Real estate—Hospital buildings		65,164,55
Pump station		688.00
Barns and silos		2,232.71
Acetylene light plant		645.17
New building		22,321.71
Inventory:		
Dining hall and kitchen furniture and fixtures	$1,112.15	
Hospital furniture and fixtures	4,716.12	
Nurses' Home furniture and fixtures	520.27	
Superintendent's residence furniture and fixtures	144.80	
Dairy fixtures	527.05	
Farm live stock	350.00	
Farm machinery and tools	499.36	
Dairy live stock	2,601.00	
Crockery and silver	219.28	
Linen and bedding	1,427.93	
Drugs and medicine	125.00	
Hospital supplies	433.75	
Automobile	350.00	
Farm expense (feed)	280.00	
Dairy expense (feed)	1,084.15	
Provisions	252.32	
Coal	19.50	
Books—Training School	58.18	
Hospital dray	76.00	
		14,796.86
Cash on hand and in bank December 1, 1915		1,993.48
		$183,891.42

LIABILITIES

Appropriation account	$ 65,000.23	
Unexpended Library fund	26.98	
Net worth	118,864.21	
		$183,891.42

CASH REPORT FOR YEAR ENDING DECEMBER 1, 1915

RECEIPTS

Cash on hand December 1, 1914	$ 443.06	
Cash in bank December 1, 1914	259.96	
		$ 703.02
State appropriation: Maintenance	$25,000.00	
Permanent improvements	30,000.00	
Extension	10,000.00	
		65,000.00
Received from patients (B. and T.)	$28,388.88	
Donation, L. B. McBrayer, postmaster	215.52	
Sundry Receipts:		
Hospital supplies	475.39	
Laundry	246.97	
Auto expense	200.35	
Freight and express	5.08	
Fuel, light, and water	15.35	
Telephone and telegrams	18.69	
Stamps and stationery	47.35	
Service cooks, etc.	2.00	
Provisions	6.16	
Dairy live stock (hides)	29.92	
Farm	4.50	
Drugs and medicine	7.60	
Traveling expense	7.87	
Auto (refund)	50.00	
		29,721.63
Total receipts		$95,424.65

DISBURSEMENTS

Accounts payable prior to December 1, 1914		$15,033.62
Bills payable prior to December 1, 1914		3,074.48
Construction and Improvements:		
New Building:		
Payments on Main Building contract	$13,233.00	
Extra work Main Building	343.71	
Payments on hot-water contract	400.00	
Payments on plumbing contract	1,745.05	
Payments on steam heating contract	4,200.00	
Payments on power house contract	263.33	
Architects	1,614.46	
Advertising (notice to contractors)	13.44	
	$21,812.99	
Acetylene Light Plant	645.17	
New milk house, extension to cow barn and improvements to old buildings	1,970.59	
Paint account	183.36	
		24,612.11

Furniture and Fixtures:		
Dining hall and kitchen	$ 59.50	
Dairy	320.32	
Hospital	1,725.99	
Nurses' Home	103.37	
Library	73.02	
Superintendent's residence	144.80	
		$ 2,427.00
Dairy live stock	$ 680.55	
Hospital dray	76.00	
Automobile	305.00	
		1,061.55
Running Expenses:		
Farm machinery and tools	$ 4.30	
Crockery	137.93	
Linen and bedding	498.83	
Drugs and medicine	595.90	
Hospital supplies	2,314.96	
Office supplies and expense	101.33	
Ice	882.48	
Books—Training School	58.18	
Provisions	15,944.75	
Fuel, light, and water	1,825.22	
Freight, express, and drayage	953.78	
Farm expense	2,337.26	
Laundry	2,228.98	
Dairy expense	3,275.38	
Telephone and telegraph	129.35	
Auto expense	453.12	
Stamps and stationery	394.18	
Insurance	305.00	
Traveling expense	734.83	
Repairs pump station	307.22	
Plumbing repairs	206.99	
Plumbing (salary)	492.00	
Coal	187.43	
Salaries	6,657.42	
Nurses	1,496.64	
Service cooks, etc.	4,514.16	
Interest	184.79	
		47,222.41
Cash on hand December 1, 1915	$ 414.06	
Cash in bank December 1, 1915	1,579.42	
		1,993.48
		$95,424.65

Total running expenses for the year	$47,222.41
Total number Hospital days for the year	33,113
Per capita cost	1.426

STATEMENT OF PERMANENT IMPROVEMENT FUND

RECEIPTS

Appropriation		$30,000.00
Transferred from maintenance fund	$3,871.15	
Transferred from extension fund	6,845.83	
		10,716.98
		$40,716.98

DISBURSEMENTS

Accounts payable prior to December 1, 1914	$11,228.77	
Bills payable prior to December 1, 1914	3,074.48	
Hospital supplies	105.36	
Books—Training School	26.89	
Plumbing supplies	6.00	
Freight and express	165.17	
Office supplies	1.90	
Acetylene Light Plant	605.00	
Fuel, light, and water	15.40	
Building and improvement	851.79	
Improvement, Hospital	371.50	
Automobile	305.00	
Hospital furniture and fixtures	428.92	
Hospital dray	76.00	
Dairy fixtures	122.50	
Superintendent's residence furniture and fixtures	144.80	
Dairy live stock	605.55	
New building	22,308.27	
Paints	74.11	
Interest	29.20	
Nurses' Home furniture and fixtures	40.37	
Dining hall furniture and fixtures	50.00	
Payment on Sunday School piano	80.00	
		$40,716.98

STATEMENT OF MAINTENANCE FUND

RECEIPTS

Appropriation	$25,000.00

DISBURSEMENTS

Salaries	$5,382.42
Laundry	250.80
Hospital supplies	557.41
Auto expense	245.34
Interest	3.00
Plumbing supplies	74.15
Acetylene Light Plant	12.47
Office supplies and expense	17.77
Nurses	1,349.14

Farm expense	$1,656.93	
Dairy expense	2,558.78	
Fuel, light, and water	236.43	
Service cooks, etc.	4,324.51	
Plumbing (salary)	492.00	
Traveling expense	155.48	
Library furniture	73.02	
Hospital furniture and fixtures	12.13	
Provisions	1,603.63	
Telephone and telegraph	16.26	
Ice	29.76	
Drugs and medicine	93.77	
Crockery	81.40	
Linen and bedding	427.54	
Pump repairs	199.41	
Building and improvement	10.00	
Freight and express	170.36	
Improvement, Hospital	39.53	
Stamps and stationery	52.60	
Accounts payable prior to December 1, 1914	1,002.81	
Transferred to Permanent Improvement Fund	3,871.15	
		$25,000.00

STATEMENT OF EXTENSION FUND

RECEIPTS

Appropriation	$10,000.00

DISBURSEMENTS

Salaries	$1,225.00	
Nurses	67.50	
Traveling expense	574.95	
Hospital supplies	45.83	
Office expense	5.42	
Stamps	50.00	
Office Equipment:		
Multigraph	595.16	
Addressograph	182.72	
Filing cabinets	107.27	
Typewriter desks	47.72	
Envelope sealer	25.00	
Typewriters	162.00	
Desks and chairs	65.60	
Transferred to Permanent Improvement Fund	6,845.83	
		$10,000.00

RECEIPTS FROM PATIENTS (MAINTENANCE)

RECEIPTS

Cash on hand and in bank December 1, 1914	$ 703.02
Cash received from patients, board and treatment	28,388.88
Cash received from sale of supplies, etc.	1,117.23
Cash received, donation from L. B. McBrayer, postmaster	215.52
	$30,424.65
Less cash on hand and in bank December 1, 1915	1,993.48
	$28,431.17

DISBURSEMENTS

Accounts payable prior to December 1, 1914	$ 2,802.04	
Dairy live stock	75.00	
Dairy fixtures	197.82	
Dining hall and kitchen furniture and fixtures	9.50	
Hospital furniture and fixtures	99.47	
Nurses' Home furniture and fixtures	63.00	
Acetylene Light Plant	27.70	
New building	13.44	
Building and improvement	145.66	
Improvement, Hospital	43.39	
Paint	109.25	
Farm machinery and tools	4.30	
Crockery	56.53	
Linen and bedding	71.29	
Drugs and medicine	502.13	
Hospital supplies	1,526.36	
Office supplies and expense	76.24	
Ice	852.72	
Books—Training School	31.29	
Provisions	14,341.12	
Fuel, light, and water	1,573.39	
Freight and express	618.25	
Farm expense	680.33	
Laundry	1,978.18	
Dairy expense	716.60	
Telephone and telegraph	113.09	
Auto expense	207.78	
Stamps and stationery	291.58	
Insurance	305.00	
Traveling expense	4.40	
Repairs, pump station	107.81	
Plumbing repairs	126.84	
Coal	187.43	
Salaries	50.00	
Nurses	80.00	
Service cooks, etc.	189.65	
Interest	152.59	
		$28,431.17

MAIN BUILDING, RECEIVING BUILDING, INFIRMARY—LEFT WING OF WHICH IS NOW COMPLETED AND IN USE.

THIRD ANNUAL REPORT

OF THE

North Carolina Sanatorium for the Treatment of Tuberculosis

UNDER CONTROL OF STATE BOARD OF HEALTH

SANATORIUM, N. C.

1916

RALEIGH
EDWARDS & BROUGHTON PRINTING CO.
STATE PRINTERS
1916

NORTH CAROLINA SANATORIUM

FOR THE TREATMENT OF TUBERCULOSIS

(Under the control of the State Board of Health)

PERSONNEL

MEMBERS STATE BOARD OF HEALTH

Dr. J. Howell Way, *President* ..... Waynesville
Dr. Richard H. Lewis ..... Raleigh
Col. J. L. Ludlow ..... Winston-Salem
Dr. W. O. Spencer ..... Winston-Salem
Dr. Thomas E. Anderson ..... Statesville
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Dr. Edward J. Wood ..... Wilmington
Dr. F. R. Harris ..... Henderson
Dr. Cyrus Thompson ..... Jacksonville

Dr. W. S. Rankin, *Executive Secretary*, Raleigh, N. C.

Superintendent ..... L. B. McBrayer, M.D.
Assistant Superintendent ..... P. P. McCain, M.D.
Assistant Physician ..... S. W. Thompson, Jr., M.D.
Private Secretary to Superintendent ..... Miss R. Withers
Head Nurse ..... Miss Mamie O'Kelly
Assistant Head Nurse ..... Miss Annabel Crawford
Cashier ..... V. F. Hill
Purchasing Agent ..... J. M. Clark
Farmer ..... J. A. Boone

EXTENSION DEPARTMENT OF THE NORTH CAROLINA SANATORIUM FOR THE TREATMENT OF TUBERCULOSIS

Bureau of Tuberculosis, State Board of Health

Chief of Bureau ..... L. B. McBrayer, M.D.

Assistant Chief of Bureau ..... P. P. McCain, M.D.
Office Secretary ..... Miss R. Withers
Clerk ..... R. M. Rice
Stenographer ..... Miss B. Withers
Director of Public Health Nursing ..... Miss S. H. Cabanis

STATE RED CROSS SEAL COMMISSION

MRS. C. C. HOOK, *Chairman*, Charlotte
MR. HAMILTON C. JONES, *Treasurer*, Charlotte
DR. OTHO ROSS, Charlotte
MRS. G. M. FINGER, Charlotte
MRS. CHARLES R. WHITAKER, Hendersonville
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MR. A. W. MCALISTER, Greensboro
MRS. C. MARTIN, Wilmington
MRS. W. N. HUTT, Raleigh
MRS. T. D. JONES, Durham
DR. W. L. DUNN, Asheville
MRS. S. H. BROWN, Oxford
COL. J. L. LUDLOW, Winston-Salem
MRS. J. L. WETMORE, Arden

DR. L. B. MCBRAYER, Executive Secretary

MISS R. WITHERS, Assistant Secretary

LETTER OF TRANSMITTAL

Dr. W. S. Rankin, *Secretary,*
State Board of Health,
Raleigh, N. C.

My dear Doctor:—I hereby transmit to you, and through you to the State Board of Health and the Governor and General Assembly, a report, being the third annual report of the North Carolina Sanatorium for the Treatment of Tuberculosis for the year 1916.

Very respectfully yours,

L. B. McBrayer,
Superintendent.

THIRD ANNUAL REPORT

OF THE

NORTH CAROLINA SANATORIUM

FOR THE TREATMENT OF TUBERCULOSIS

SANATORIUM, N. C.

We are pleased to report progress along every line of endeavor.

Building Activities

We have constructed the left wing of our Main Building, which is and is to be Receiving Building and Infirmary and Administration Building. This left wing was intended to accommodate 48 patients; we are now housing 64 patients in this building. We have built a power house, installed a 100-horse-power boiler, engine, and dynamo. From this power house we heat all the buildings on the hill, furnish steam to run the ice plant, steam for cooking, and electricity for light and power. We have installed a cold storage and ice plant. We have built a coal chute which delivers the coal in front of the power-house door; have built a cottage for engineer and a two-room house for fireman; a storage warehouse in which to store supplies, close by the railroad, where it is convenient to load and unload freight and express direct into the warehouse, whether local or by the car-load. We have painted, screened, underpinned, and otherwise repaired all the old buildings on the hill, making extensive repairs to dining-room and kitchen. We have also made some temporary repairs to the old dairy barn and built a shed for machinery. In matters of economy, we are running our power plant for about what it costs us to pump our water with gasoline and buy our ice, so that we have our electric lights and steam heat free. The Southern Express Company has recently given us an express office, and we have been notified that our postoffice will be advanced to third class January 1, 1917.

Extension Work

In the Extension Department we have in two years examined 643 cases for diagnosis, 411 of these during 1916. We have carried on extensively a correspondence course with physicians throughout the State with especial regard to the early diagnosis of tuberculosis. This has been productive of great good. We have endeavored to enforce the law requiring the physicians to report their cases of tuberculosis to us and have sent such cases printed instructions

in regard to the prevention of the spread of the disease to others, and as to the open-air treatment.

We have bought sputum cups in quarter-million lots and are shipping them all over the State to any one wanting them, at actual cost, which is 50 cents per 100. We have distributed 60,302 of these during the last year. We have sent out 12,093 copies of literature. We have had 3,557 cases reported. Of these, 2,545 are alive; the others have died. We have written letters, multigraph and personal, to the amount of 60,744. We have received 14,605 letters; we have written articles for the press, bulletin, and other magazines, amounting to 80,273 words. We have prepared 37 forms, placards, etc., amounting to 19,241 copies. We have been furnishing capillary tubes of tuberculin for the Von Pirquet diagnostic test to physicians and have sent out 1,625 to these, the only charge being that they should report the result of the test. We have delivered during the last year 35 addresses, to a total audience of 3,995. We have had 58 conferences with local authorities. We have done 2,350 laboratory examinations in the last year and furnished physicians with histories of the first examination of their patients amounting to 133,787 words. We have made a complete detailed sickness survey of the Silk Mill village at Wadesboro, perhaps more complete than has ever been done in the United States, and among other things, advised the employment of a public health nurse, which has been done, and the erection and maintenance of a sanatorium, which is now under consideration.

Public Health Nursing.—After a conference with the Secretary of the State Board of Health, and at his suggestion, we took the matter of Public Health Nursing under the Bureau of Tuberculosis. We had all the public health nurses in the State, about 41 in number, as our guests at the Sanatorium for two days, and the meeting did much to further the cause of public health nursing. We have secured a Director of Public Health Nursing for North Carolina, Miss S. H. Cabanis, who devotes all her time to this particular thing. We were fortunate to secure the coöperation of the Metropolitan Life Insurance Company, which is paying one-half of the salary and traveling expenses of the Director. This company is also coöperating in local nursing activities and has given to us five scholarships in public health nursing in the University of Cincinnati.

Red Cross Seals.—We have conducted the Red Cross Seal Campaign for two years and are actively engaged in the third campaign at this time. The receipts last year amounted to $8,033.86. We confidently expect the receipts this year to go over $10,000. Seventy-five per cent of the receipts will be used by the local committees in their own locality, 10 per cent will be sent to the National Association for the Study and Prevention of Tuberculosis, which furnishes the seals and advertising matter, and 15 per cent will go to the State Red Cross Seal Commission. All of it will be used in the fight against tuberculosis in North Carolina.

In connection with the Red Cross Seal Campaign we have each year conducted a campaign for the observance of Tuberculosis Sunday and Tuberculosis Week, sending letters requesting every minister in the State to speak on the subject of tuberculosis and disease prevention on Tuberculosis Sunday, enclosing appropriate literature to use in his remarks.

DONATIONS

We have received the following donations from friends:

Donor and Donation

Concord Anti-Tuberculosis Society, Concord, bookcases.
Ida Hawkins Missionary Society, Wilmington, 75 Bibles.
Mrs. Ella H. Williams, Poplar Branch, N. C., 1 Bible.
Miss Kate M. Herring, Raleigh, N. C., vases.
Mrs. John C. Scarborough, Winton, N. C., $2 for Bibles.
Maxton Presbyterian Sunday School Class, Maxton, N. C., 19 Bibles.
Miss Anna L. Twelvetrees, Charlotte, N. C., 100 song books.
Mrs. Jennie G. Yates, Louisburg, N. C., books and literature.
Miss H. Brown, Charlotte, N. C., 2 Bibles.
Mr. A. W. McLean, Lumberton, N. C., magazines.
Mrs. D. H. Ray, Fayetteville, N. C., books.
M. P. Philathea Class, Asheboro, N. C., literature.
Miss Cordelia W. Phifer, Charlotte, N. C., 4 Testaments.
Southern Pines Civic Club, Southern Pines, $50 check (from sale of Red Cross seals).
Miss Bess Stewart, Carthage, N. C., 7 books.
Miss Grace McKinnin, Bennettsville, S. C., $5 quarterly (for Sunday School literature).
Mrs. Walter H. Neal, Laurinburg, N. C., 7 books.
Thompson Baraca Class, Greensboro, N. C., box of books.
Kings Daughters, Rockingham, N. C., box of magazines.
Mrs. Mary D. Brush, New York City, box of magazines and books.
News Printery, Lenoir, N. C., box of magazines.
Rev. Mr. Gude, Wagram, N. C., books.
Mr. and Mrs. Yates, Aberdeen, N. C., books.
Aberdeen Baptist Church, Aberdeen, N. C., books.
Hon. A. W. McLean, Lumberton, N. C., 2 books.
Miss Maude Upchurch, Raeford, N. C., 2 Victrola records.
Mrs. W. S. Rankin, Raleigh, N. C., 1 Victrola record.
Miss Elizabeth Connolly, Denver, Col., 2 Victrola records.
Mrs. and Mr. Edward Gibson, Laurinburg, N. C., Victrola records.
Miss Ruth Withers, Sanatorium, N. C., 2 Victrola records.
Bluff Presbyterian Sunday School, 1 Bible.
Miss Ruth Andrews, subscription to *Country Gentleman.*
Miss Lillie A. Way, Belhaven, N. C., 1 book.
Hon. A. W. McLean, Lumberton, N. C., 1 bundle magazines.
Rev. F. W. Bradley, Gastonia, N. C., 1 bundle magazines.
Mrs. Jennie Tucker, Wingate, N. C., 1 book.
Miss Lydia Holman, Altapas, N. C., 1 box books.
Century Company, through Miss Jones, Aberdeen, N. C., 10 books.
Mrs. Mary Latham, Plymouth, N. C., 1 box books.
Dorcas Bell Love Chapter, D. A. R., Waynesville, N. C., 1 box books.
Page Memorial Library, Aberdeen, N. C., 2 boxes magazines.
Miss Helen Howland, Charlotte, N. C., 500 flower bulbs.
Civic Club, Aberdeen, N. C., during summer, flowers each week.
Clemmons Civic and Benevolent League, furnished one room, $75.

PATIENTS SUPPORTED BY CLUBS, LODGES, CHURCHES, AND OTHER ORGANIZATIONS

The following is a rough estimate of number of patients whose expenses here have been paid by others than themselves and amount. It is not nearly correct, for the reason that the money is often sent direct to the patients, in which case we have no way of knowing anything about it:

Name of Club or Organization	*Number Patients*	*Amount Paid*
Woman's Club, Raleigh	6	$ 452.00
Woman's Club, Greensboro	1	137.00
Pasquotank County	1	234.00
Charity Organization, Goldsboro	2	285.00
Presbyterian Church, Winston-Salem	1	85.00
Civic League and First Baptist Church, Wadesboro	1	152.00
Cabarrus County	1	61.00
St. Pauls Presbyterian Church	1	120.00
Carteret County	1	133.00
Associated Charities, Charlotte	1	60.00
Junior Order, Burlington	1	51.00
Baptist Sunday School, Raleigh	1	60.00
Forsyth County	2	150.00
Jefferson Standard Life Insurance Company	2	181.00
Buncombe County	2	257.34
Total	24	$2,418.34

INCIPIENT CASES

By referring to our medical report you will note that every incipient case that we have treated is alive and at work, and our records show that their earning capacity is as great as it ever was. We make it a rule every year, during the month of November, to write a letter to every patient that we have treated, and in this way we have obtained the above encouraging information. When contrasted with the results obtained in the far advanced cases, it impresses us with the importance of early diagnosis and early treatment in tuberculosis. We are pleased to note that we have admitted as many incipient cases in one month during 1916 as we did during the whole of the year 1915, which is very encouraging, and which we attribute largely to our extension work.

DEMAND FOR ADMITTANCE

The demands for admittance continue to be very insistent. And it is sincerely hoped that provision will be made for the completion of our Main Building and other physical equipment which will increase our capacity to 200, and by changing them every four months, which is about the average stay, will enable us to care for 600 patients per year. There are many activities that cannot be put into a report, but we trust that this will serve to give general insight into our work.

MEDICAL REPORT

DEFINITIONS OF TERMS EMPLOYED

On Admission

These definitions indicate the furthest extent of disease and the greatest severity of symptoms that a patient can present and still belong to the stage defined. All patients beyond the incipient stage fall under the moderately advanced stage unless the physical signs and symptoms exceed those of the moderately advanced stage, when they should be classified as far advanced.

Incipient.

Slight or no constitutional symptoms (including, particularly, gastric or intestinal disturbance or rapid loss of weight). Slight or no elevation of temperature or acceleration of pulse at any time during the twenty-four hours.

Expectoration usually small in amount or absent. Tubercle bacilli may be present or absent.

Slight infiltration limited to the apex of one or both lungs or a small part of one lobe.

No tuberculous complications.

Moderately Advanced.

No marked impairment of function, either local or constitutional.

Localized consolidation moderate in extent with little or no evidence of cavity formation; or infiltration more extensive than under incipient. No serious complications.

Far Advanced.

Marked impairment of function, local and constitutional.

Marked consolidation of an entire lobe.

Or disseminated areas of beginning cavity formation.

Or serious complications.

Miliary Tuberculosis.

On Discharge

Arrested.

All constitutional symptoms and expectoration with bacilli absent for a period of six months; the physical signs to be those of a healed lesion.

Apparently Arrested.

All constitutional symptoms and expectoration with bacilli absent for a period of three months; the physical signs to be those of a healed lesion.

Quiescent.

Absence of all constitutional symptoms, expectoration and bacilli may or may not be present; physical signs stationary or retrogressive. The foregoing conditions to have existed for at least two months.

Improved.

Constitutional symptoms lessened or entirely absent; physical signs improved or unchanged; cough and expectoration with bacilli usually present.

Unimproved.

All essential symptoms and signs unabated or increased.

ULTIMATE RESULTS

Arrested.

General health and working capacity retained for six months and over. No active symptoms. Bacilli may be present.

Improved.

All cases not in above classification, but with inactive disease.

TERMS USED IN DEFINITION OF "INCIPIENT"

1. *Slight Constitutional Disturbance.*

Slight loss of appetite, of strength, of weight; lassitude; possibly slight acceleration of pulse or possibly slight elevation of temperature. The impairment of health may be so slight that the patient does not look or feel sick in the ordinary sense of the word.

2. *Slight Elevation of Temperature.*

Maximum temperature after rest for one hour, never goes 99.5 to 100 degrees F. by mouth (or 100.5 per rectum).

3. *Slight Acceleration of Pulse.*

Maximum pulse rate not over 90 after rest for one hour, sitting or lying, except when due to causes other than tuberculosis.

4. *Absence of Tubercle Bacilli.*

Each monthly examination (if the sputum be negative), to consist of a careful microscopic examination, with a mechanical stage, of two smears, devoting at least three minutes to each smear, made from selected particles (at least six from different parts) of the sputum on each of three successive days. The morning sputum should always be obtained, or, better, the minute bits that some arrested patients raise at very infrequent intervals. It is not yet deemed wise to insist on digestion and centrifugalization, or on inoculation of guinea-pigs.

5. *Infiltration.*

Physical signs of slight prominence of the clavicle, lessened movement of chest, narrowing of apical resonance with lessened movement of base of lung, slight or no change in resonance, distant or loud and harsh breathing, with or without some change in the rhythm (*i. e.*, prolonged expiration); vocal resonance possibly slightly increased; or fine or moderately coarse râles present or absent. If sputum contains tubercle bacilli, any one of these.

6. *Apex.*

That portion of the lung situated above the clavicle and the third vertebral spine.

7. *Small Part of One Lobe.*

An area of one or two intercostal spaces, or an area not exceeding 60 to 80 sq. cm. in extent, according to the size of the patient.

TERMS USED IN DEFINITION OF "MODERATELY ADVANCED"

8. *Marked Impairment of Function, Either Local or Constitutional.*

Local: Marked dyspnea on exertion, limiting seriously the patient's activity.

Constitutional: Marked weakness, anorexia, tachycardia.

9. *Moderate Extent of Localized Consolidation.*

An area of one-half lobe or less, but may involve both apices; marked dullness, bronchial or decidedly broncho-vesicular breathing; markedly increased vocal resonance; râles usually present. These signs are to be sharply limited as to area instead of gradually shading into normal physical signs.

10. *Evidences of Destruction of Tissue.*

Presence of tubercle bacilli or elastic fibers in the sputum or the presence of the physical signs of a cavity. There are no absolutely certain physical signs of cavity, but a combination of any four of the following signs is to be taken as indicative of a cavity: (1) cracked-pot note; (2) amphoric breathing; (3) intense whispering pectoriloquy; (4) a veiled puff or post-tussive suction; (5) bubbling or resonant râles. "Physical signs of softening" do not admit of any definition apart from that of cavity formation, and the terms should not be used.

11. *Disseminated Fibroid Deposits.*

More or less localized areas of fibrous tissue, producing on physical examination, some change or dullness in the percussion note, more or less increase of vocal resonance, harsh, suppressed or broncho-vesicular breathing, râles sibilant or sonorous usually, but at times fine and moderately coarse.

12. *Serious Complications.*

These should be limited to tuberculous complications, such as meningitis, pharyngitis, laryngitis (except slight thickening in the posterior interarytenoid space, and superficial ulceration of a vocal chord), enteritis, peritonitis, nephritis, cystitis, orchitis, adenitis (unless very slight), etc.

STATISTICAL

Number patients to be reported on	267
Number not tuberculous	6
Number not classified	1
Number patients in sanatorium December 1, 1916	120
Total number patients treated during year	394

TABLE No. 1—33 PATIENTS WHO STAYED LESS THAN 30 DAYS.

Condition on Admission	Condition on Discharge					
	Arrested	Apparently Arrested	Quiescent	Improved	Unimproved	Died
Incipient 11				11		
Moderately advanced 8				7	1	
Far advanced 13				9	3	1
Acute tuberculosis 1					1	
Totals 33				27	5	1

Average Stay, 16.96 Days. Longest stay, 29 Days. Shortest Stay, 4 Days.

Number Gained Weight, 16.		Number Lost Weight, 7.	
Average gain	4.39 Lbs.	Average loss	2.89 Lbs.
Largest gain	11 Lbs.	Largest loss	8 Lbs.
Smallest gain	.5 Lb.	Smallest loss	1 Lb.
Stationary	7	Not weighed	3

TABLE No. 2—77 PATIENTS WHO STAYED FROM 30 TO 89 DAYS.

Condition on Admission	Condition on Discharge					
	Arrested	Apparently Arrested	Quiescent	Improved	Unimproved	Died
Incipient 24			9	14	1	
Moderately advanced 26			12	21	3	
Far advanced 17			2	9	5	1
Acute tuberculosis 0						
Totals 77			23	44	9	1

Average Stay, 55.77 Days. Longest Stay, 89 Days. Shortest Stay, 30 Days.

Number Gained Weight, 64.		Number Lost Weight, 11.	
Average gain	8.67 Lbs.	Average loss	4.45 Lbs.
Largest gain	26.5 Lbs.	Largest loss	12.5 Lbs.
Smallest gain	.5 Lb.	Smallest loss	.5 Lb.
Stationary	2	Not weighed	0

TABLE No. 3—157 PATIENTS WHO STAYED 90 DAYS OR MORE.

Condition on Admission	Condition on Discharge					
	Arrested	Apparently Arrested	Quiescent	Improved	Unimproved	Died
Incipient 36	9	26	1			
Moderately advanced 85	21	22	29	8	4	1
Far advanced 36	1	1	11	9	11	3
Acute tuberculosis 0						
Totals 157	31	49	41	17	15	4

Average Stay, 173.48 Days. Longest Stay, 913 Days.* Shortest Stay, 90 Days.

Number Gained Weight, 127.		Number Lost Weight, 26.	
Average gain	15.13 Lbs.	Average loss	6.61 Lbs.
Largest gain	38.5 Lbs.	Largest loss	27 Lbs.
Smallest gain	1 Lb.	Smallest loss	1 Lb.
Stationary	4	Not weighed	0

*Worked to pay expenses.

TABLE No. 4—HISTORY OF HEMORRHAGE.

Negative		182
Positive	Previous only	53
	Previous and during residence	26
	During residence only	6
Total		267

TABLE No. 5—RESULTS OF SPUTUM EXAMINATIONS.

Negative or no Sputum		110
Positive	On admission	110
	During residence	134
	On discharge	117

TABLE No. 6—13 PATIENTS WHO TOOK THE TUBERCULIN TEST.

Negative	6
Positive	7

TABLE No. 7—COMPLICATIONS.

Adenitis	2	Liver abscess	1
Anal fistula	7	Lumbago	1
Asthma	2	Lung abscess	1
Bronchitis	19	Mitral insufficiency	2
Broncho-pneumonia	1	Otitis media	1
Carcinoma	1	Orchitis	2
Diabetes	3	Paraplegia	1
Empyema	2	Pharyngitis	1
Enteritis	3	Pleurisy with effusion	6
Femoral hernia	1	Potts disease	1
Herpes zoster	2	Pregnancy	2
Laryngitis	21	Scoliosis	2
		Uterine polypi	1

Sex		Age						Civil Condition		
		10-19	20-29	30-39	40-49	50-59	60-72	Single	Married	Widowed
Male	133	11	61	42	12	5	2	66	66	1
Female	134	22	62	37	8	4	1	66	53	15
Totals	267	33	123	79	20	9	3	132	119	16

TABLE No. 8—NATIONALITY.

American	266
Russian	1

TABLE No. 9—OCCUPATIONS.

Artist	1	Electrician	3	Printer	1
Auditor	1	Farmer	25	Pupil nurse	5
Baker	2	Graduate nurse	1	Railroad clerk	4
Bank cashier	1	Hosiery mill operative	2	Railroad inspector	1
Barber	2	Hotel clerk	1	Rural mail carrier	1
Blacksmith	1	Hotel proprietress	2	Sawyer	1
Bookkeeper	7	Housewife	53	Seamstress	3
Box factory operative	1	Housework at home	24	Silk mill operative	1
Cabinet maker	1	Jeweler	1	Steam fitter	1
Café waiter	1	Machinist	3	Stone cutter	1
Carpenter	4	Manager planing mill	1	Student	28
Chauffeur	3	Medical student	1	Superintendent cotton mill	1
Cigar maker	2	Merchant	9	Superintendent furniture fac.	1
Civil engineer	1	Milliner	2	Teacher	17
Clerk in store	10	Minister	1	Teamster	2
Cotton mill operative	13	Office clerk	1	Telegraph operator	2
Drug clerk	1	Painter	1	Telephone operator	1
Editor	1	Physician	1	Traveling salesman	6
Electrical engineer	1	Practical nurse	1	Well driller	1

TABLE No. 10—TOWNS FROM WHICH 267 PATIENTS CAME.

Ansonville	2	Gibsonville	1	Pittsboro	1
Albemarle	5	High Point	9	Pantego	1
Aulander	1	Henderson	3	Peachland	1
Asheville	1	Hollis	1	Patterson	1
Apex	2	Hillsboro	2	Pinetown	1
Aberdeen	1	Harrellsville	1	Pelham	1
Asheboro	1	Hope Mills	1	Parkersburg	1
Burlington	7	High Rock	1	Raleigh	14
Boone	1	Hamstead	1	Rocky Mount	5
Belvidere	1	Indian Trail	1	Richlands	1
Bettie	1	Kenly	1	Rowland	1
Belmont	1	Lumberton	9	Rock Creek	1
Beaufort	1	Liberty	1	Rockingham	3
Burgaw	1	Lasker	1	Red Springs	1
Barber	1	Low Gap	1	Roanoke Rapids	1
Bladenboro	1	Laurinburg	3	Rocky Point	1
Charlotte	3	Louisburg	2	Salisbury	6
Cherryville	1	Lewiston	1	Star	1
Conover	1	Littleton	1	Seaboard	1
Camden	1	Leasburg	1	Spencer	1
Concord	4	Lillington	1	Sophia	1
Clemmons	1	Lincolnton	1	Sanford	1
Carthage	1	Lexington	1	Statesville	4
Canby	1	Lucama	1	Stoneville	1
Cornelius	1	Maysville	1	Shelby	3
Clayton	1	Mars Hill	2	Shallotte	1
Castalia	1	Marion	2	Spray	1
Cofield	1	Mount Airy	4	Stanley	1
Cameron	1	Maxton	3	Summerfield	2
Carpenter	1	Mount Gilead	2	Southport	2
Duke	3	Magnolia	1	St. Paul's	2
Dunn	3	Manassas	1	Scotland Neck	1
Durham	1	Merry Oaks	2	Smithfield	1
Davidson	1	Mount Holly	1	South Mills	1
Dudley	1	Mayodan	1	Stedman	1
Elm City	1	Millboro	1	Selma	1
Elon College	1	Mooresville	1	Saxapahaw	1
Elizabeth City	1	Murfreesboro	1	Troy	1
East Bend	1	Milton	1	Wilmington	4
Fayetteville	5	Madison	1	Windsor	1
Fairmont	1	Moyock	1	Washington	3
Fremont	1	Morehead City	1	Wilson	4
Fountain	1	McDonald	1	Whitakers	1
Forest City	1	Murphy	1	Wendell	1
Farmville	1	North Wilkesboro	1	Winston-Salem	4
Fairfield	1	New Bern	2	Wingate	1
Greensboro	9	Norwood	1	Williamston	1
Goldsboro	3	Neuse	1	Wadesboro	2
Graham	1	Oxford	2	Whichard	1
Gum Neck	1	Parkton	2		

TABLE No. 11—COUNTIES FROM WHICH THE 267 PATIENTS CAME.

Anson	4	Catawba	1	Jones	1	Pasquotank	1
Alamance	11	Cabarrus	4	Lee	1	Randolph	4
Bertie	3	Durham	1	Lincoln	1	Rowan	3
Buncombe	1	Davidson	2	Moore	3	Robeson	20
Beaufort	5	Duplin	1	Mecklenburg	5	Rutherford	2
Brunswick	3	Forsyth	5	Montgomery	4	Rockingham	4
Cleveland	3	Franklin	2	McDowell	2	Richmond	3
Camden	2	Gaston	3	Madison	2	Tyrrell	1
Chatham	3	Guilford	9	Martin	1	Union	2
Caswell	3	Granville	2	New Hanover	4	Vance	3
Currituck	1	Halifax	2	Northampton	2	Wake	18
Carteret	3	Hertford	2	Nash	1	Wilkes	1
Cherokee	1	Hyde	1	Onslow	1	Wayne	5
Craven	2	Harnett	7	Pender	3	Wilson	2
Caldwell	1	Iredell	5	Pitt	2	Yadkin	1
Cumberland	6	Johnston	4	Perquimans	1		

Total of 63 counties. Highest number from any one county, 20, Robeson.

TABLE No. 12—OUTSIDE PATIENTS EXAMINED.

December	15	March	22	June	34	September	61
January	26	April	18	July	34	October	38
February	29	May	44	August	48	November	42
Total							411

TABLE No. 13—PRESENT CONDITION (DECEMBER 1, 1916) OF ALL INCIPIENT PATIENTS DISCHARGED FROM THE SANATORIUM PREVIOUS TO DECEMBER 1, 1915.

Condition on Discharge		Without Tuberculin		With Tuberculin		Total
		Discharged, 1914	Discharged, 1915	Discharged, 1914	Discharged, 1915	
Arrested 5	Living and working	0	4	0	1	5
	Living and not working	0	0	0	0	0
	Dead	0	0	0	0	0
	Lost	0	0	0	0	0
Apparently Arrested 10	Living and working	1	6	1	2	10
	Living and not working	0	0	0	0	0
	Dead	0	0	0	0	0
	Lost	0	0	0	0	0
Quiescent 11	Living and working	4	7	0	0	11
	Living and not working	0	0	0	0	0
	Dead	0	0	0	0	0
	Lost	0	0	0	0	0
Improved 11	Living and working	2	8	0	0	10
	Living and not working	0	0	0	0	0
	Dead	0	0	0	0	0
	Lost	1	0	0	0	1
Unimproved 0	Living and working	0	0	0	0	0
	Living and not working	0	0	0	0	0
	Dead	0	0	0	0	0
	Lost	0	0	0	0	0
Total 37	Living and working	--	--	--	--	36
	Living and not working	--	--	--	--	0
	Dead	--	--	--	--	0
	Lost	--	--	--	--	1

TABLE No. 14—PRESENT CONDITION (DECEMBER 1, 1916) OF ALL MODERATELY ADVANCED PATIENTS DISCHARGED FROM THE SANATORIUM PREVIOUS TO DECEMBER 1, 1915.

Condition on Discharge		Without Tuberculin		With Tuberculin		Total
		Discharged, 1914	Discharged, 1915	Discharged, 1914	Discharged, 1915	
Arrested 6	Living and working	0	2	0	2	4
	Living and not working	0	1	1	0	2
	Dead	0	0	0	0	0
	Lost	0	0	0	0	0
Apparently Arrested 13	Living and working	6	3	2	0	11
	Living and not working	1	1	0	0	2
	Dead	0	0	0	0	0
	Lost	0	0	0	0	0
Quiescent 42	Living and working	7	14	1	4	26
	Living and not working	2	3	1	1	7
	Dead	6	2	1	0	9
	Lost	0	0	0	0	0
Improved 72	Living and working	19	11	0	0	30
	Living and not working	5	11	0	0	16
	Dead	20	4	0	1	25
	Lost	1	0	0	0	1
Unimproved 4	Living and working	0	0	0	0	0
	Living and not working	0	0	0	0	0
	Dead	2	2	0	0	4
	Lost	0	0	0	0	0
Total 137	Living and working	--	--	--	--	71
	Living and not working	--	--	--	--	27
	Dead	--	--	--	--	38
	Lost	--	--	--	--	1

TABLE No. 15—PRESENT CONDITION (DECEMBER 1, 1916) OF ALL FAR ADVANCED PATIENTS DISCHARGED FROM THE SANATORIUM PREVIOUS TO DECEMBER 1, 1915.

Condition on Discharge		Without Tuberculin		With Tuberculin		Total
		Discharged, 1914	Discharged, 1915	Discharged, 1914	Discharged, 1915	
Arrested 0	Living and working	0	0	0	0	0
	Living and not working	0	0	0	0	0
	Dead	0	0	0	0	0
	Lost	0	0	0	0	0
Apparently Arrested 2	Living and working	0	0	0	0	0
	Living and not working	0	1	0	0	1
	Dead	1	0	0	0	1
	Lost	0	0	0	0	0
Quiescent 12	Living and working	0	4	0	1	5
	Living and not working	1	4	0	0	5
	Dead	0	2	0	0	2
	Lost	0	0	0	0	0
Improved 54	Living and working	0	3	1	0	4
	Living and not working	2	5	1	1	9
	Dead	24	16	0	1	41
	Lost	0	0	0	0	0
Unimproved 48	Living and working	0	0	0	0	0
	Living and not working	0	1	0	0	1
	Dead	31	14	1	1	47
	Lost	0	0	0	0	0
Total 116	Living and working	--	--	--	--	9
	Living and not working	--	--	--	--	16
	Dead	--	--	--	--	91
	Lost	--	--	--	--	0

FINANCIAL STATEMENT

DECEMBER 1, 1916

Assets

FIXED PROPERTIES

Appropriation account		$ 65,000.23
Real estate (farms)		11,283.36
Real estate and Hospital buildings		106,808.85
Pump station		1,108.21
Barns and silos		2,232.71
Acetylene light plant		645.17
Power and electric light plant		3,569.12
Telephone system		1,075.34
Ice plant		2,239.80
		$193,962.79
Inventory:		
Dining hall and kitchen furniture and fixtures	$3,642.90	
Hospital furniture and fixtures	3,913.27	
Nurses' Home furniture and fixtures	501.45	
Superintendent's residence furniture and fixtures	646.40	
Dairy fixtures	326.73	
Farm machinery and tools	474.15	
Farm live stock	1,710.00	
Dairy live stock	2,890.00	
Linen and bedding	2,566.60	
Hospital supplies	1,866.61	
Automobile	250.00	
Farm expense (feeds, etc.)	484.06	
Dairy expense (feeds, etc.)	2,489.60	
Provisions	648.58	
Coal	85.00	
Books—Training School	85.30	
Hospital dray	35.00	
Hogs	1,783.50	
Power, heat, light, refrigeration, and water	1,579.98	
Library	125.00	
Office supplies (business)	98.35	
Office equipment (business)	430.02	
Office supplies (extension)	212.50	
Office equipment (extension)	1,643.49	
Laboratory supplies	183.00	
Laboratory equipment	486.83	
Stenographers' Home furniture and fixtures	145.70	
Stereopticon outfit	118.20	
Cash on hand	687.74	
		30,109.96
		$224,072.75

LIABILITIES

Appropriation account	$ 65,000,23	
Net worth	158,961.13	
Page Trust Company, overdraft	15.00	
Bank of Hoke, overdraft	96.39	
		$224,072.75

CASH REPORT FOR YEAR ENDING DECEMBER 1, 1916

RECEIPTS

State appropriation, 1915, maintenance, balance	$ .23	
1916, maintenance	25,000.00	
1916, permanent improvements	30,000.00	
1916, permanent improvements (note)	5,000.00	
1916, permanent improvements (overdraft)	15.00	
1916, extension	10,000.00	
		$ 70,015.23
Patients—Maintenance Fund:		
Cash in Bank of Hoke December 1, 1915	$ 1,579.42	
Cash on hand December 1, 1915	414.06	
	$ 1,993.48	

Receipts, 1916

Patients—board and treatment	$38,631.49
Donated by Dr. McBrayer, Postoffice receipts	857.73
Hospital supplies	907.91
Telephone and telegraph	29.93
Laundry	323.16
Stamps	.80
Automobile	291.74
Fuel, light, and water	25.05
Freight and express	13.47
Hides	34.87
Old electric light line	345.24
Paint	22.05
Plumbing supplies	11.33
Training School books	2.00
Provisions	204.57
Donation (Clemmons Civic and Betterment League)	75.00
Rent	1.00
Farm expense	23.82
Dairy expense	54.17
Refund traveling expense	26.30
Office supplies and expense	.55
Ice	4.50
Safe	65.00
Dining hall and kitchen furniture and fixtures	96.60
Cooks and servants	10.67

Coal	$ 168.00	
Hogs	11.00	
	$44,231.43	
Overdraft Bank of Hoke December 1, 1916	96.39	
	$44,327.82	
Less cash on hand December 1, 1916	687.74	
		$ 43,640.08
		$113,655.31

DISBURSEMENTS

Year Ending December 1, 1916

Hospital supplies	$ 5,167.68
Telephone and telegraph	235.97
Refund patients	576.96
Laundry	2,301.16
Stamps	1,194.49
Auto expense	704.24
Fuel, light, and water	3,594.06
Freight and express	1,066.70
Coal	3,401.76
Office supplies	461.96
Provisions	21,757.84
Hospital supplies	1,035.56
Dairy expense	1,624.65
Farm expense	4,344.99
Repair heating system	1,976.99
Repairs and supplies plumbing system	546.44
Repairs old buildings	1,059.55
Repairs pump	158.61
Repairs farm house	56.20
Ice	195.74
Kitchen supplies	7.33
Cooks, etc.	5,266.15
Nurses and attendants	2,272.22
Training School books	29.12
Refrigerator supplies	225.02
Linen and bedding	1,116.40
Crockery and silver	264.53
Expense of grounds	226.33
Hogs	287.66
Machinery and tools	38.22
Safe	65.00
Paint	100.83
Electric wire	55.47
Stationery	24.65
Kitchen equipment	108.68
Telephone maintenance	8.29
Refrigerator repairs	109.86
Clearing new ground	65.69

Salaries	$ 8,751.04
Traveling expense	1,041.85
Reservoir, No. 2	187.14
Well, No. 3	26.00
Library	8.54
Surveying and platting land	122.70
Plumbing supplies and expense	186.53
Telephone installation	1,075.34
Farm live stock	1,090.22
Farm tools	187.14
Ice plant	34.30
Hospital dray	5.30
Interest	35.83
Charley Sandy	475.00
Dairy fixtures	7.86
Hospital furniture and fixtures	507.18
Dining hall and kitchen furniture and fixtures	367.24
Plumbing extension	650.73
Heating contract	8,585.00
New building, miscellaneous	117.25
New building, main contract	2,137.00
New building, laying drain	21.95
New building, furniture and fixtures	1,778.56
New building, hot-water contract	149.60
Extras on heat and power contract	986.97
New building, plumbing contract	729.95
Dairy live stock	631.57
Coal chute and trestle	828.12
Improvements to negro quarters	291.29
Improvements to Club House	244.10
Power house	579.09
Garage	2.80
Improvements old dining-room	1,496.92
Electric wiring contract	1,542.98
Paint and painting	574.23
Improvements, men's shack	265.02
Improvements, ladies' shack	7.10
Nurses' home furniture and fixtures	17.65
Sewer extension	495.50
Improvements Nurses' Home	13.20
Pump house	238.68
Improvements, Superintendent's residence	19.45
New kitchen equipment	2,157.12
Crematory	36.75
Refrigerating plant	2,205.50
Superintendent's home furniture and fixtures	94.05
Concrete reservoir, No. 1	708.69
New floor, old kitchen	179.65
Septic tank (Brooks Hall)	162.04
Extras on depot	6.40
Recliners	125.75

Carara table tops	$ 270.00
Extras on engineer's and fireman's houses	26.58
Engineer's and fireman's houses and depot	2,250.00
Improvements, stenographers' home	101.90
Improvements, pump station	14.19
Extras on plumbing contract	501.57
Extras on electric wiring contract	211.05
Tool shed, farm	98.57
Page Trust Company, note	5,000.00
Office furniture and fixtures	846.62
Bookcases	87.47
Stereopticon outfit	118.20
Medical books	24.75
	$113,655.31

STATEMENT OF PERMANENT IMPROVEMENT FUND

RECEIPTS

Appropriation	$30,000.00
Bills payable	5,000.00
Transferred from Maintenance Fund	506.29
Transferred from Extension Fund	3,409.68
Overdraft	15.00
	$38,930.97

DISBURSEMENTS

Farm machinery and tools	$ 39.40
Dairy fixtures	7.86
Hospital furniture and fixtures	507.18
Dining hall and kitchen furniture and fixtures	367.24
Plumbing extension	650.73
Heating contract	8,585.00
New building, miscellaneous	117.25
New building, main contract	2,137.00
Main building, laying drain	21.95
New building, furniture and fixtures	1,778.56
New building, hot-water contract	149.60
Extras on heat and power contract	986.97
New building, plumbing contract	729.95
Dairy live stock	631.57
Coal chute and trestle	828.12
Improvements, negro quarters	291.29
Improvements, club house	244.10
Power house	579.09
Garage	2.80
Improvements, old dining-room	1,496.92
Electric wiring contract	1,542.98
Paint and painting	574.23
Improvement, men's shack	265.02
Improvement, ladies' shack	7.10
Nurses' home furniture and fixtures	17.65

Sewer extension	$ 495.50
Improvement, nurses' home	13.20
Pump house	238.68
Improvement, Superintendent's residence	19.45
New kitchen equipment	2,157.12
Crematory	36.75
Refrigerating plant	2,205.50
Farm live stock	480.22
Improvement of grounds	113.66
Superintendent's home, furniture and fixtures	94.05
Reservoir	708.69
Telephones	76.60
Improvement of old buildings, miscellaneous	287.12
New floor (old kitchen)	179.65
Septic tank	162.04
Extras on depot	6.40
Recliners	125.75
Carara table tops	270.00
Extras on engineer's and firemen's houses	26.58
Engineer's and fireman's houses and depot (contract)	2,250.00
Improvement of stenographers' home	101.90
Improvement foreman's residence (farm)	14.19
Improvement pump station	181.53
Extras on plumbing contract	501.57
Extras on wiring contract	211.05
Extras on telephone contract	43.00
Tool shed (farm)	98.57
Telephone installation	272.64
Page Trust Company (note)	5,000.00
	$38,930.97

STATEMENT OF MAINTENANCE APPROPRIATION

RECEIPTS

Appropriation, balance, 1915	$ .23
Appropriation, 1916	25,000.00
	$25,000.23

DISBURSEMENTS

Plumbing salary	$ 95.15
Dairy expense	2,434.57
Salaries	5,436.59
Nurses and attendants	2,193.25
Service of cooks	5,159.61
Farm expense	1,902.29
Interest	35.83
Office supplies and expense	13.01
Provisions	3,177.53
Hospital supplies	704.95
Fuel, light, and water	1,163.04
Freight and express	178.53

Crockery and silver	$ 27.21
Repairs and supplies (pump house)	1.60
Telephone and telegraph	13.86
Plumbing supplies and repairs	91.03
Repairs, old buildings	115.19
Drugs and medicines	125.79
Laundry	194.97
Refrigeration	142.62
Coal	366.39
Auto expense	381.25
Stationery	41.17
Linen and bedding	23.51
Charley Sandy	475.00
	$24,493.94
Transferred to Permanent Improvement	506.29
	$25,000.23

STATEMENT OF MAINTENANCE—PATIENTS FUND

RECEIPTS

Bank of Hoke, deposits	$43,543.69
Overdraft, Bank of Hoke	96.39
	$43,640.08

DISBURSEMENTS

Telephone and telegraph	$ 222.11
Refund to patients	576.97
Hospital supplies	5,167.68
Laundry	2,106.19
Stamps	298.58
Auto expense	322.99
Fuel, light, and water	2,431.02
Freight and express	865.97
Coal	3,035.97
Office supplies	144.49
Provisions	18,580.31
Drugs and medicines	154.82
Dairy expense	1,624.65
Farm expense	1,910.42
Repairs heating system	74.70
Repairs and supplies plumping system	546.44
Repairs old buildings	657.24
Repairs pump	157.01
Repairs farm house	56.20
Ice	195.74
Kitchen supplies	7.33
Service cooks, etc.	106.54
Nurses and attendants	78.97
Training School books	29.12
Refrigeration (supplies)	82.40

Linen and bedding	$ 1,092.89
Crockery and silver	237.32
Expense (grounds)	16.08
Hogs	287.66
Machinists' tools	38.22
Safe	65.00
Paint	100.83
Electric wire	55.47
Stationery	24.65
Improvement (grounds)	96.59
Kitchen equipment	108.68
Telephone maintenance	8.29
Refrigeration (repairs)	109.86
Clearing new ground	65.69
Salaries	74.17
S. H. Cabanis (traveling expenses)	2.25
Concrete reservoir, No. 2	187.14
Well, No. 3	26.00
Library	6.54
Surveying and platting lands	122.70
Plumbing supplies	.35
Telephone installation	683.10
Farm live stock	610.00
Farm tools	147.74
Charles R. Whitaker (ice plant)	34.30
Hospital dray	5.30
	$43,640.08

STATEMENT OF EXTENSION FUND

RECEIPTS

Appropriation	$10,000.00

DISBURSEMENTS

Office furniture and fixtures	$ 846.62
Stamps	895.91
Salaries	3,240.28
Traveling expense	660.68
Bookcases	87.47
Freight and express	22.20
Office supplies and expense	263.29
Expense speaker nurses' meeting	80.49
Tuberculin	25.00
Lantern slides	83.20
Stereopticon lantern	35.00
Medical books	24.75
Library books	2.00
Miss Florence Housevold, expenses Lexington, Ky., to High Point	27.92
Expenses attending State Medical Society	143.81
Expenses Miss Kimble to N. C. S. and return	45.70
Traveling expenses, Miss Kimble to N. C. S. and return	45.70

Traveling expenses, Miss Cabanis from St. Augustine	$ 33.10
Traveling expenses, Miss Cabanis, on duty	27.40
Traveling expenses, Dr. D. C. Absher to Sanatorium	5.80
Supplies	25.00
Expense of William M. Jones	5.50
Expense of Dr. F. M. Register	9.20
	$ 6,590.32
Transferred to Permanent Improvement Fund	3,409.68
	$10,000.00

TRIAL BALANCE DECEMBER 1, 1916, AFTER BOOKS WERE CLOSED

Surplus		$158,961.13
Real estate (farms)	$ 11,283.36	
Real estate (hospital and buildings)	106,808.85	
Pump station	1,108.21	
Barns and silos	2,232.71	
Acetylene light plant	645.17	
Dining hall and kitchen furniture and fixtures	3,642.90	
Hospital furniture and fixtures	3,913.27	
Nurses' home furniture and fixtures	501.45	
Superintendent's residence furniture and fixtures	646.40	
Dairy fixtures	326.73	
Farm machinery and tools	474.15	
Farm live stock	1,710.00	
Dairy live stock	2,890.00	
Linen and bedding	2,566.60	
Hospital supplies	1,866.61	
Automobile	250.00	
Farm expense	484.06	
Dairy expense	2,489.60	
Provisions	648.58	
Coal	85.00	
Books (Training School)	85.30	
Hospital dray	35.00	
Permanent Improvement Fund		15.00
Bank of Hoke		96.39
Hogs	1,783.50	
Power, heat, light, water, and refrigeration	1,579.98	
Telephone system	1,075.34	
Ice plant	2,239.80	
Stereopticon outfit	118.20	
Library	125.00	
Power, heat, and electric plant	3,569.12	
Office supplies and expenses (business)	98.35	
Office supplies and expenses (extension)	212.50	
Laboratory and medical equipment	486.83	
Laboratory and medical supplies	183.00	

Stenographers' home furniture and fixtures	$ 145.70	
Office equipment (business)	430.02	
Office equipment (extension)	1,643.49	
Cash	687.74	
		$159,072.52

OUR NEEDS

Finishing main building	$ 60,000.00
Furnishing main building	10,000.00
Dairy barn	7,500.00
Dairy cows	2,500.00
Superintendent's residence	13,500.00
Houses for employees	7,500.00
Water tower	6,000.00
Sewerage system and disposal plant	8,000.00
Water power (218 acres)	3,270.00
Development of water power	18,730.00
Improvement to grounds	1,500.00
Repairs to buildings	2,500.00
Laundry machinery	6,000.00
Power house and laundry building	3,500.00
New boiler	2,500.00
New well	1,500.00
New pumps	1,000.00
Steam sterilizer for clothing	1,500.00
Steam sterilizer for milk bottling plant	1,500.00
Total	$158,400.00

Maintenance, 1917	$ 30,000.00
Maintenance, 1918	40,000.00
Extension, per annum	15,000.00

FOURTH ANNUAL REPORT

OF THE

North Carolina Sanatorium for the Treatment of Tuberculosis

UNDER CONTROL OF STATE BOARD OF HEALTH

SANATORIUM, N. C.

1917

RALEIGH
EDWARDS & BROUGHTON PRINTING COMPANY
STATE PRINTERS
1919

SIGNS OF TUBERCULOSIS

A hemorrhage of the lungs means tuberculosis without exception.

A subnormal temperature (by the thermometer) in the morning and a rise of temperature in the afternoon means tuberculosis 99 times in 100, and often the other time, too.

A low blood pressure, taken with the proper instrument, is suggestive of tuberculosis.

A cough that lasts more than three weeks should suggest tuberculosis and should call for an examination by a competent physician.

The tubercle bacillus in the sputum is a positive sign of tuberculosis, but the diagnosis should be made long before the bacillus can be found.

The earlier the diagnosis of tuberculosis is made, the greater are the chances for recovery. The later in its course the disease is found, the less are the chances for recovery.

NORTH CAROLINA SANATORIUM

FOR THE TREATMENT OF TUBERCULOSIS

(Under the control of the State Board of Health)

PERSONNEL

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EXTENSION DEPARTMENT OF THE NORTH CAROLINA SANATORIUM FOR THE TREATMENT OF TUBERCULOSIS

Bureau of Tuberculosis, State Board of Health

Chief of Bureau ..... L. B. McBrayer, M. D.
Assistant Chief of Bureau ..... P. P. McCain, M.D.
Office Secretary ..... Miss R. Withers
Clerk ..... A. W. Snow
Stenographers ..... Miss B. Withers, Miss L. Thorpe, Miss L. Lindley
Director of Education and Organization of Negro Work ..... Florence C. Williams

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MISS R. WITHERS, Assistant Secretary

LETTER OF TRANSMITTAL

Dr. W. S. Rankin, *Secretary,*
State Board of Health,
Raleigh, N. C.

My Dear Doctor:—I hereby transmit to you, and through you to the State Board of Health and the Governor and General Assembly, a report, being the fourth annual report of the North Carolina Sanatorium for the Treatment of Tuberculosis, for the year 1917, covering only financial statement and medical report.

Very respectfully yours,

L. B. McBrayer,
Superintendent.

MEDICAL REPORT

DEFINITIONS OF TERMS EMPLOYED

On Admission

These definitions indicate the furthest extent of disease and the greatest severity of symptoms that a patient can present and still belong to the stage defined. All patients beyond the incipient stage fall under the moderately advanced stage unless the physical signs and symptoms exceed those of the moderately advanced stage, when they should be classified as far advanced.

Incipient.

Slight or no constitutional symptoms (including, particularly, gastric or intestinal disturbance or rapid loss of weight). Slight or no elevation of temperature or acceleration of pulse at any time during the twenty-four hours.

Expectoration usually small in amount or absent. Tubercle bacilli may be present or absent.

Slight infiltration limited to the apex of one or both lungs or a small part of one lobe.

No tuberculous complications.

Moderately Advanced.

No marked impairment of function, either local or constitutional.

Localized consolidation moderate in extent with little or no evidence of cavity formation; or infiltration more extensive than under incipient. No serious complications.

Far Advanced.

Marked impairment of function, local and constitutional.

Marked consolidation of an entire lobe.

Or disseminated areas of beginning cavity formation.

Or serious complications.

Miliary Tuberculosis.

On Discharge

Arrested.

All constitutional symptoms and expectoration with bacilli absent for a period of six months; the physical signs to be those of a healed lesion.

Apparently Arrested.

All constitutional symptoms and expectoration with bacilli absent for a period of three months; the physical signs to be those of a healed lesion.

Quiescent.

Absence of all constitutional symptoms, expectoration and bacilli may or may not be present; physical signs stationary or retrogressive. The foregoing conditions to have existed for at least two months.

Improved.

Constitutional symptoms lessened or entirely absent; physical signs improved or unchanged; cough and expectoration with bacilli usually present.

Unimproved.

All essential symptoms and signs unabated or increased.

TERMS USED IN DEFINITION OF "INCIPIENT"

1. *Slight Constitutional Disturbance.*

Slight loss of appetite, of strength, of weight; lassitude; possibly slight acceleration of pulse or possibly slight elevation of temperature. The impairment of health may be so slight that the patient does not look or feel sick in the ordinary sense of the word.

2. *Slight Elevation of Temperature.*

Maximum temperature after rest for one hour, never goes 99.5 to 100 degrees F. by mouth (or 100.5 per rectum).

3. *Slight Acceleration of Pulse.*

Maximum pulse rate not over 90 after rest for one hour, sitting or lying, except when due to causes other than tuberculosis.

4. *Absence of Tubercle Bacilli.*

Each monthly examination (if the sputum be negative), to consist of a careful microscopic examination, with a mechanical stage, of two smears, devoting at least three minutes to each smear, made from selected particles (at least six from different parts) of the sputum on each of three successive days. The morning sputum should always be obtained, or, better, the minute bits that some arrested patients raise at very infrequent intervals. It is not yet deemed wise to insist on digestion and centrifugalization, or on inoculation of guinea pigs.

5. *Infiltration.*

Physical signs of slight prominence of the clavicle, lessened movement of chest, narrowing of apical resonance with lessened movement of base of lung, slight or no change in resonance, distant or loud and harsh breathing, with or without some change in the rhythm (i. e., prolonged expiration); vocal resonance possibly slightly increased; or fine or moderately coarse râles present or absent. If sputum contains tubercle bacilli, any one of these.

6. *Apex.*

That portion of the lung situated above the clavicle and the third vertebral spine.

7. *Small Part of One Lobe.*

An area of one or two intercostal spaces, or an area not exceeding 60 to 80 sq. cm. in extent, according to the size of the patient.

TERMS USED IN DEFINITION OF "MODERATELY ADVANCED"

8. *Marked Impairment of Function, Either Local or Constitutional.*

Local: Marked dyspnea on exertion, limiting seriously the patient's activity.

Constitutional: Marked weakness, anorexia, tachycardia.

9. *Moderate Extent of Localized Consolidation.*

An area of one-half lobe or less, but may involve both apices; marked dullness, bronchial or decidedly broncho-vesicular breathing; markedly increased vocal resonance; râles usually present. These signs are to be sharply limited as to area instead of gradually shading into normal physical signs.

10. *Evidences of Destruction of Tissue.*

Presence of tubercle bacilli or elastic fibers in the sputum or the presence of the physical signs of a cavity. There are no absolutely certain physical signs of cavity, but a combination of any four of the following signs is to be taken as indicative of a cavity: (1) cracked-pot note; (2) amphoric breathing; (3) intense whispering pectoriloquy; (4) a veiled puff or post-tussive suction; (5) bubbling or resonant râles. "Physical signs of softening" do not admit of any definition apart from that of cavity formation, and the terms should not be used.

11. *Disseminated Fibroid Deposits.*

More or less localized areas of fibrous tissue, producing on physical examination some change or dullness in the percussion note, more or less increase of vocal resonance, harsh, suppressed, or broncho-vesicular breathing, râles sibilant or sonorous usually, but at times fine and moderately coarse.

12. *Serious Complications.*

These should be limited to tuberculous complications, such as meningitis, pharyngitis, laryngitis (except slight thickening in the posterior interarytenoid space, and superficial ulceration of a vocal chord), enteritis, peritonitis, nephritis, cystitis, orchitis, adenitis (unless very slight), etc.

MEDICAL REPORT, 1917

STATISTICAL

Number patients to be reported on	319
Number not tuberculous	1
Number patients in Sanatorium December 1, 1917	126
Total number patients treated during the year	446

35 PATIENTS WHO STAYED LESS THAN 30 DAYS.

Condition on Admission		Condition on Discharge					
		Arrested	Apparently Arrested	Quiescent	Improved	Unimproved	Died
Incipient	9	0	0	0	9	0	0
Moderately advanced	11	0	0	0	10	1	0
Far advanced	15	0	0	0	7	7	1
Acute tuberculosis	0	0	0	0	0	0	0
Totals	35	0	0	0	26	8	1

Total number days, 667. Average stay, 19.05 days. Longest stay, 29 days. Shortest stay, 3 days.

Number Gained Weight, 24		Number Lost Weight, 6	
Average gain	3.9 Lbs.	Average loss	1.6 Lbs.
Largest gain	14 Lbs.	Largest loss	3 Lbs.
Smallest gain	.5 Lb.	Smallest loss	.5 Lb.
Stationary	1	Not weighed	4

80 PATIENTS WHO STAYED 30 TO 89 DAYS.

Condition on Admission		Condition on Discharge					
		Arrested	Apparently Arrested	Quiescent	Improved	Unimproved	Died
Incipient	22	0	0	11	11	0	0
Moderately advanced	39	0	0	13	24	2	0
Far advanced	19	0	0	1	8	8	2
Acute tuberculosis	0	0	0	0	0	0	0
Totals	80	0	0	25	43	10	2

Total number days, 4,592. Average stay, 57.4 days. Longest stay, 89 days. Shortest stay, 30 days.

Number Gained Weight, 69		Number Lost Weight, 10	
Average gain	9.52 Lbs.	Average loss	4.05 Lbs.
Largest gain	26 Lbs.	Largest loss	8 Lbs.
Smallest gain	.75 Lb.	Smallest loss	.50 Lb.
Stationary	1		

204 PATIENTS WHO STAYED 90 DAYS OR MORE.

Condition on Admission		Condition on Discharge					
		Arrested	Apparently Arrested	Quiescent	Improved	Unimproved	Died
Incipient	67	19	37	2	7	2	0
Moderately advanced	78	14	15	27	17	5	0
Far advanced	59	0	3	16	25	10	5
Acute tuberculosis	0	0	0	0	0	0	0
Totals	204	33	55	45	49	17	5

Total number days, 38,252. Average stay, 187.5 days. Longest stay, 695 days. Shortest stay, 90 days.

Number Gained Weight, 173		Number Lost Weight, 26	
Average gain	16.35 Lbs.	Average loss	7.99 Lbs.
Largest gain	48.50 Lbs.	Largest loss	33.50 Lbs.
Smallest gain	1 Lb.	Smallest loss	1 Lb.
Stationary	1		

HISTORY OF HEMORRHAGE.

Negative		218
Positive	Previous only	78
	Previous and during residence	15
	During residence only	8
Total		319

RESULTS OF SPUTUM EXAMINATIONS.

Negative or no sputum		147
Positive	On admission	159
	During residence	148
	On discharge	139

5 PATIENTS WHO TOOK THE TUBERCULIN TEST.

Positive	4
Negative	1
Total	5

COMPLICATIONS.

Adenitis	1	Hemorrhoids	1	Plumbism	1
Anal fistula	7	Herpes zoster	2	Pregnancy	4
Appendicitis	1	Laryngitis	47	Sciatica	1
Asthma	3	Meningitis	2	Scoliosis	1
Bronchitis	13	Mitral insufficiency	2	Septic arthritis	1
Broncho-pneumonia	1	Otitis media	3	Spontaneous pneumo-thorax	2
Carcinoma	2	Paranoia	1	Syphilis	1
Cellulitis	1	Parenchymatous nephritis	6	Tabes dorsalis	1
Enteritis	15	Peritonitis	3	Tuberculous knee	1
Gonorrhea	1	Pharyngitis	1	Tuberculous sternum	1
		Pleurisy with effusion	8		

SEX, AGE AND CIVIL CONDITION.

Sex		Age						Civil Condition		
		8-19	20-29	30-39	40-49	50-59	60-70	Single	Married	Widowed
Male	176	20	73	41	25	16	1	90	81	5
Female	143	20	62	38	18	5	0	64	73	6
Totals	319	40	135	79	43	21	1	154	154	11

NATIONALITY.

American	316
Scotchman	1
Swede	1
Syrian	1
Total	319

OCCUPATIONS.

Barber	1
Blacksmith	1
Bookkeepers	4
Brickmason	1
Butchers	2
Cafe manager	1
Cafe waiter	1
Canning club demonstrator	1
Carpenters	5
Chauffeur	1
Civil engineer	1
Cashier of bank	1
Cashier of motion pictures	1
Clerks in office	4
Clerks in store	8
Contractors	2
Day laborer	1
Drayman	1
Electricians	2
Employee box factory	1
Employees cotton mill	10
Employees hosiery mill	3
Farmers	50
Fisherman	1
Foreman in cotton mill	4
Foreman in fertilizer factory	1
Glass-blower	1
Housekeeper	1
Housemaid	1
Housewives	65
House work at home	25
Laundress	1
Lawyer	1
Linotype operators	2
Machinists	5
Rural mail carrier	1
Mechanics	3
Merchants	9
Ministers	3
Motormen—street car	2
News butcher	1
Nurse—graduate	1
Nurse—practical	2
Nurse—pupil	2
Painter	1
Photographer	1
Physicians	2
Policeman	1
Printer	1
Proofreader	1
Plumber	1
Proprietor garage	1
Proprietors lumber mills	2
Railway car inspector	1
Railway conductor	1
Railway fireman	1
Railway station agent	1
Real estate agent	1
Sailor	1
Seamstresses	2
Shipping clerk	1
Shoemaker	1
Stenographers	8
Students	36
Superintendent of school	1
Teachers	9
Telephone linemen	2
Telephone manager	1
Teller	1
Traveling salesmen	5

COUNTIES FROM WHICH 319 PATIENTS CAME.

Alamance	11	Forsyth	11	Pasquotank	5
Anson	5	Gaston	3	Pender	1
Beaufort	2	Granville	3	Person	2
Bertie	3	Guilford	22	Pitt	7
Bladen	4	Halifax	8	Randolph	1
Buncombe	5	Harnett	6	Richmond	3
Burke	3	Henderson	1	Robeson	13
Cabarrus	8	Hertford	3	Rockingham	1
Caldwell	1	Hoke	1	Rowan	8
Camden	1	Hyde	1	Rutherford	1
Carteret	2	Iredell	4	Sampson	8
Caswell	2	Johnston	4	Scotland	7
Catawba	1	Lee	2	Stanly	8
Cleveland	6	Lenoir	5	Stokes	2
Columbus	3	Lincoln	1	Surry	6
Craven	3	Martin	7	Swain	1
Cumberland	7	Mecklenburg	4	Union	2
Currituck	2	Montgomery	6	Vance	4
Davidson	4	Moore	1	Wake	16
Davie	1	Nash	2	Washington	1
Duplin	4	New Hanover	3	Wayne	3
Durham	5	Northampton	1	Wilson	9
Edgecombe	7	Orange	3	Yadkin	3

TOWNS FROM WHICH 319 PATIENTS CAME.

Aberdeen	1	Connelly Springs	1	Gold Hill	1
Ahoskie	1	Cooper	3	Goldsboro	2
Albemarle	5	Cornelius	2	Graham	2
Ansonville	1	Creedmoor	1	Greensboro	10
Apex	4	Currituck	1	Greenville	3
Asheboro	1	Cycle	1	Guilford	1
Asheville	4	Delway	1	Halifax	1
Auburn	1	Duke	2	Hallsboro	1
Aulander	1	Dundarrach	1	Hamer	1
Bath	1	Dunn	1	Hamlet	2
Beaufort	1	Durham	4	Hamptonville	1
Bellarthur	1	East Durham	1	Hassell	1
Black Mountain	1	Edgewald	1	Hayne	1
Bladenboro	1	Elizabeth City	5	Henderson	3
Blanch	1	Elizabethtown	1	Hickory	1
Bosts Mill	1	Elkin	2	Hiddenite	1
Bridgeton	1	Enfield	1	High Point	6
Brown Summit	1	Everetts	1	High Towers	1
Burlington	6	Evergreen	1	Hobgood	1
Cana	1	Etowah	1	Hope Mills	1
Canby	1	Fairfield	1	Indian Trail	1
Candor	1	Fairmont	1	Ingold	1
Carpenter	1	Fair Oaks	2	Jamesville	1
Casar	1	Farmville	2	Jonesboro	1
Chapel Hill	3	Fayetteville	2	Jonesville	1
Charlotte	1	Forest City	1	Judson	1
Cherryville	1	Fountain	1	Julian	1
Chocowinity	1	Four Oaks	1	Kelford	1
Clarkton	1	Fremont	1	Kerr	1
Climax	1	Fuquay Springs	1	Kinston	3
Clinton	4	Gastonia	1	Kipling	1
Cofield	1	Gibson	1	LaGrange	2
Concord	7	Gliden	1	Laurel Hill	2

TOWNS FROM WHICH 319 PATIENTS CAME—CONTINUED.

Laurinburg	3	Pilot Mountain	1	Spencer	2
Lenoir	1	Pinnacle	1	Spring Hope	2
Lexington	3	Plymouth	1	Stedman	1
Lillington	2	Polkton	2	Statesville	2
Lincolnton	1	Powells Point	1	Stokesdale	1
Linden	1	Princeton	1	St. Pauls	2
Lucama	1	Proctorville	1	Summerfield	1
Lumberton	5	Raleigh	14	Tarboro	1
McAdenville	1	Red Springs	2	Taylorsville	1
McFarlan	1	Roanoke Rapids	1	Waco	1
Maxton	1	Robersonville	2	Wadesboro	1
Mayodan	1	Rock Creek	1	Wakefield	1
Monroe	2	Rockford	1	Walnut Cove	1
Mooresville	2	Rockingham	1	Warsaw	4
Morehead City	1	Rocky Mount	5	Wendell	1
Morganton	2	Rosemary	2	Whitakers	1
Morrisville	2	Rowland	1	Willard	1
Mount Airy	2	Roxobel	1	Williamston	2
Mount Gilead	3	Roxboro	2	Wilmington	3
Neuse	1	Salisbury	5	Wilson	5
New Bern	2	Sanford	1	Windsor	1
Nilson	1	Scotland Neck	2	Winston-Salem	10
Norwood	3	Shelby	4	Winterville	1
Okeeneemee	1	Simms	2	Winton	1
Oxford	2	Smithfield	2	Youngsville	1
Pfafftown	1	South Mills	1	Zebulon	1
		Southmont	1		

OUTSIDE PATIENTS EXAMINED FOR DIAGNOSIS AND CONSULTATION.

December	24	April	39	August	57
January	33	May	61	September	66
February	34	June	43	October	36
March	35	July	41	November	67
Total					536

PRESENT CONDITION OF ALL INCIPIENT PATIENTS DISCHARGED FROM THE SANATORIUM PREVIOUS TO DECEMBER 1, 1916.

Condition on Discharge	Condition December 1 1917	Without Tuberculin			With Tuberculin			Total
		Discharged, 1914	Discharged, 1915	Discharged, 1916	Discharged, 1914	Discharged, 1915	Discharged, 1916	
Arrested 14	Living and working	0	5	9	0	0	0	14
	Living and not working	0	0	0	0	0	0	0
	Dead	0	0	0	0	0	0	0
	Lost	0	0	0	0	0	0	0
Apparently Arrested 39	Living and working	2	9	24	0	0	0	35
	Living and not working	1	0	3	0	0	0	4
	Dead	0	0	0	0	0	0	0
	Lost	0	0	0	0	0	0	0
Quiescent 25	Living and working	5	8	10	0	0	0	23
	Living and not working	0	0	1	0	0	0	1
	Dead	0	1	0	0	0	0	1
	Lost	0	0	0	0	0	0	0
Improved 30	Living and working	2	7	16	0	0	0	25
	Living and not working	0	1	3	0	0	0	4
	Dead	0	1	0	0	0	0	1
	Lost	0	0	0	0	0	0	0
Unimproved 1	Living and working	0	0	1	0	0	0	1
	Living and not working	0	0	0	0	0	0	0
	Dead	0	0	0	0	0	0	0
	Lost	0	0	0	0	0	0	0
Total 109	Living and working							98
	Living and not working							9
	Dead							2
	Lost							0

PRESENT CONDITION OF ALL MODERATELY ADVANCED PATIENTS DISCHARGED FROM SANATORIUM PREVIOUS TO DECEMBER 1, 1916.

Condition on Discharge	Condition December 1, 1917	Without Tuberculin			With Tuberculin			Total
		Discharged, 1914	Discharged, 1915	Discharged 1916	Discharged, 1914	Discharged, 1915	Discharged, 1916	
Arrested 25	Living and working	0	4	16	0	1	1	22
	Living and not working	0	0	2	0	0	0	2
	Dead	0	1	0	0	0	0	1
	Lost	0	0	0	0	0	0	0
Apparently Arrested 36	Living and working	6	5	11	0	0	0	22
	Living and not working	0	2	6	1	0	0	9
	Dead	0	1	4	0	0	0	5
	Lost	0	0	0	0	0	0	0
Quiescent 81	Living and working	7	14	12	2	4	1	40
	Living and not working	0	2	8	0	2	1	13
	Dead	7	6	14	0	0	1	28
	Lost	0	0	0	0	0	0	0
Improved 114	Living and working	19	9	16	0	0	0	44
	Living and not working	4	7	7	0	0	0	18
	Dead	19	13	10	0	1	0	52
	Lost	0	0	0	0	0	0	0
Unimproved 17	Living and working	0	0	4	0	0	0	4
	Living and not working	0	0	0	0	0	0	0
	Dead	3	6	3	0	0	1	13
	Lost	0	0	0	0	0	0	0
Total 273	Living and working							132
	Living and not working							42
	Dead							99
	Lost							0

PRESENT CONDITION OF ALL FAR ADVANCED PATIENTS DISCHARGED FROM THE SANATORIUM PREVIOUS TO DECEMBER 1, 1916.

Condition on Discharge	Condition December 1, 1917	Without Tuberculin			With Tuberculin			Total
		Discharged, 1914	Discharged, 1915	Discharged, 1916	Discharged, 1914	Discharged, 1915	Discharged, 1916	
Arrested 2	Living and working	0	1	1	0	0	0	2
	Living and not working	0	0	0	0	0	0	0
	Dead	0	0	0	0	0	0	0
	Lost	0	0	0	0	0	0	0
Apparently Arrested 1	Living and working	0	0	0	0	0	0	0
	Living and not working	0	0	1	0	0	0	1
	Dead	0	0	0	0	0	0	0
	Lost	0	0	0	0	0	0	0
Quiescent 32	Living and working	0	3	4	0	2	1	10
	Living and not working	0	2	3	1	2	0	8
	Dead	2	6	4	0	1	1	14
	Lost	0	0	0	0	0	0	0
Improved 73	Living and working	1	3	7	1	0	0	12
	Living and not working	1	0	8	1	1	1	12
	Dead	23	17	7	0	1	1	49
	Lost	0	0	0	0	0	0	0
Unimproved 53	Living and working	0	0	3	0	0	0	3
	Living and not working	0	1	0	0	0	0	1
	Dead	19	15	10	2	2	1	49
	Lost	0	0	0	0	0	0	0
Total 161	Living and working							27
	Living and not working							22
	Dead							112
	Lost							0

ANNUAL TABULATED ITEMS OF EXTENSION WORK

NORTH CAROLINA SANATORIUM, SANATORIUM, N. C., FOR THE YEAR 1917

Letters and postals received		20,607
Letters written:		
Individual	20,194	
Multigraph	40,501	
Total		60,695
Articles written (approximate number words):		
Newspaper	10,070	
Bulletin	2,360	
Official pamphlet	3,514	
Other publication	4,700	
Total		20,644
Forms and placards prepared		25
Total number copies of forms and placards		16,389
Blank cards mailed for reporting cases of tuberculosis		6,106
Number cases reported this year:		
White	1,695	
Black	1,137	
Total		2,832
Literature sent to reported cases		3,562
Other literature sent out		35,500
Mailing cases distributed		25
Sputum cups distributed		102,450
Tuberculin sent physicians for Von Pirquet diagnostic test		486
Blanks for reporting result of Von Pirquet diagnostic test		486
Patients' histories written (approx. no. words, 363 histories)		181,500
Envelopes addressed		46,280
Address delivered:		
Number		33
Total audience		4,750
Local activities:		
Number local investigations		88
Number conferences with local authorities		88
Days out of office on official business		84

REPORT OF LABORATORY WORK

Sputa:	
Chem.	
Miks.	2,159
Urinalyses:	
Chem.	653
Miks.	653
Pleural fluid	11
Spinal fluid	2
Feces	18
Blood	17
Gastric	6
Total	3,519
Total number cases examined for diagnosis	536

FINANCIAL STATEMENT

Trial Balance, December 1, 1917

Surplus		$201,642.50
Real estate, farms	$ 11,763.34	
Real estate and hospital buildings	109,927.43	
Barns and silos	2,267.54	
Dining hall and kitchen, furniture and fixtures	3,647.80	
Hospital, furniture and fixtures	3,522.05	
Nurses' Home, furniture and fixtures	444.75	
Superintendent's residence, furniture and fixtures	1,448.75	
Dairy fixtures	286.00	
Farm machinery and tools	1,448.80	
Farm, live-stock	1,600.00	
Dairy, live-stock	5,765.00	
Crockery and silver	760.91	
Linen and bedding	6,024.00	
Drugs and medicines	133.55	
Hospital supplies	3,125.17	
Farm expense	520.00	
Dairy expense	1,402.00	
Provisions	2,204.15	
Books—Training School	93.50	
Extension Fund		2.60
Bank of Hoke		36.61
Hogs	728.00	
Stereopticon outfit	118.20	
Library (books donated)	125.00	
Office supplies and expenses (business)	324.16	
Office supplies and expenses (extension)	239.75	
Laboratory and medical office equipment	703.08	
Stenographers' building, furnishings	369.65	
Office equipment (business)	502.75	
Office equipment (extension)	2,444.75	
Power, heat, light, water, refrig., and plbg	29,464.49	
Telephone system	1,152.42	
Sewer system and disposal plant	4,903.88	
Transportation and dray	775.00	
Cash	2,445.84	
	$201,681.71	$201,681.71

PERMANENT IMPROVEMENTS

Disbursements, December 1, 1916, to November 30, 1917

Buildings	217	2	New	$ 51.36
Equipment:	217	3	Improvements	2,986.74
Furniture and fixtures	217	5	Dining-room and kitchen	37.38
Domestic op.:	218	11	Telephones	77.08
	218	12	Heat	92.82
	218	13	Power	4,025.47
	219	14	Light	62.42
	219	15	Water	14,965.05
	219	16	Refrigeration	11.70
	220	22	Landscape	30.80
	220	24	Sewers	4,903.88
				$ 27,244.70

EXTENSION FUND

Disbursements, December 1, 1916, to November 30, 1917

Executive	222	26	Salaries	$ 3,961.76
	222	27	Traveling expense	891.68
Office	222	28	Furniture and fixtures	705.99
	223	29	Books and stationery	679.20
	223	30	Stamps	760.03
	223	31	Miscellaneous	606.64
				$ 7,605.30

MAINTENANCE APPROPRIATION

Disbursements, December 1, 1916, to November 30, 1917

Hospital:	225	33	Medical	4,110.00
Salaries	225	34	Executive	2,303.00
	225	35	Nurses and attendants	2,445.29
	226	36	Cooks and servants	5,390.77
	226	37	Traveling expense	46.40
Supplies	226	38	Bedding and linen	793.93
	227	41	Miscellaneous	270.11
Provisions	227	42	Meats	134.81
	227	43	Butter	255.00
	228	45	Vegetables and fruits	207.25
	228	46	Groceries	605.55
Equipment	228	49	Instruments	78.48
Office	229	51	Equipment	1.25
Domestic op.:	229	53	Stamps	6.50
Power and heat	229	55	Labor	939.50
	230	56	Supplies	1,795.52
	230	57	Miscellaneous	125.05
Light	230	58	Labor	120.00
Water	231	63	Labor	185.00
	231	66	Supplies	36.12

Refg., plbg., and S	231	68	Labor	$ 120.00
	232	72	Labor	180.00
	232	74	Supplies	36.13
Farms	232	77	Buildings	300.80
	233	80	Machinery and tools	952.83
	233	81	Seeds and fertilizer	352.05
	233	82	Feed	1,040.53
	234	83	Labor	2,274.47
	234	85	Miscellaneous	48.79
Dairy	234	88	Live-stock	2,418.63
	235	91	Feed	349.50
	235	92	Labor	1,047.91
Miscellaneous:	235	95	Labor	44.00
	236	99	Transfer and drayage	223.62
	236	102	Supt. res., furn. and fix.	903.81
				$ 30,142.60

MAINTENANCE—PATIENTS' FUND

Disbursements, December 1, 1916, to November 30, 1917

Hospital:	240	129	Nurses and attendants	$ 14.20
Salaries	240	130	Cooks and servants	83.63
Supplies	240	132	Bedding and linen	478.03
	241	133	Crockery and silver	725.21
	241	134	Drugs and medicines	1,001.30
	241	135	Miscellaneous	4,366.01
Provisions	242	136	Meats	5,974.58
	242	137	Butter	1,930.02
	242	138	Eggs	5,819.02
	243	139	Vegetables and fruits	1,987.08
	243	140	Groceries	5,401.24
	243	141	Miscellaneous	2,427.62
Equipment	244	142	Furniture and fixtures	421.86
	244	143	Instruments	124.48
	244	144	Miscellaneous	85.42
Office	245	145	Equipment	82.04
	245	146	Stationery and books	292.14
	245	147	Stamps	408.47
Domestic op.:	246	148	Miscellaneous	87.73
Power and heat	246	149	Labor	154.25
	246	150	Supplies	5,152.53
	247	151	Miscellaneous	161.20
Light	247	152	Labor	32.28
	247	153	Supplies	172.08
	248	156	Miscellaneous	35.00
Water	248	157	Labor	122.34
	248	158	Equipment	185.92
	249	160	Supplies	91.99
Refrigeration	249	163	Equipment	2.80
	249	164	Supplies	111.97
Plumbing and S	250	168	Supplies	28.00

Farms	250	171	Buildings	$ 146.38
	250	172	Repairs to buildings	32.80
	251	174	Machinery and tools	207.27
	251	175	Seeds and fertilizers	742.31
	251	176	Feed	1,225.32
	252	177	Labor	147.26
	252	179	Miscellaneous	251.66
Dairy	252	181	Rep. to bldgs. and silos	34.83
	253	182	Live-stock	21.48
	253	183	Fixtures	35.77
	253	184	Supplies	169.27
	254	185	Feed	2,124.03
	254	186	Labor	45.68
Miscellaneous:	254	190	Training School, books	27.44
	255	191	Messages and tolls	390.31
	255	192	Laundry	3,342.46
	255	193	Trans. and drayage	1,517.24
	256	196	Refunds	622.50
	256	197	Freight and express	1.40
	256	198	Hogs	49.86
	257	199	Landscape	8.58
	257	200	Boiler No. 2	5.00
	257	201	Canning	712.59
				$ 49,821.88

STATEMENT SHOWING DISPOSITION OF FUNDS, 1916-17

PERMANENT IMPROVEMENT FUND

Appropriation	$ 25,000.00
Transferred from Extension Fund (loan)	2,244.70
Expenditures as per disbursement statement	$ 27,244.70

MAINTENANCE FUND

Appropriation	$ 30,000.00
Transferred from Extension Fund (loan)	142.60
Expenditures as per disbursement statement	$ 30,142.60

EXTENSION FUND

Appropriation		$ 10,000.00
Loaned to Permanent Imp. Fund	$2,244.70	
Loaned to Maintenance Fund	142.60	2,387.30
		$ 7,612.70
Expenditures as per disbursement statement	$7,605.30	
Balance Page Trust Company	7.40	7,612.70
Disbursements, Maintenance Appropriation Fund		$ 30,142.60
Disbursements, Maintenance Patients' Fund		49,821.88
Total		$ 79,964.48
Less refund, board and treatment		622.50
Amount actually expended		$ 79,341.98
Total number hospital days		44,255
Average cost each patient per day		$1.80

NORTH CAROLINA SANATORIUM FOR THE TREATMENT OF TUBERCULOSIS, SANATORIUM, N. C.

COMPARATIVE BALANCE SHEETS

Assets	*Dec. 1, 1916*	*Dec. 1, 1917*
Real estate and hospital buildings	$106,808.85	$109,927.43
Real estate, farms	11,283.38	11,763.34
Barns and silos	2,232.71	2,267.54
Pump station	1,108.21	
Acetylene light plant	645.17	
Electric light and power plant	3,569.12	
Ice plant	2,239.80	
Telephone system	1,075.34	1,152.42
Power, heat, light, water, refrigerating and plmbg		29,464.49
Sewer system and disposal plant		4,903.88
Inventories:		
Furniture and fixtures:		
Dining hall and kitchen	3,642.90	3,647.80
Hospital	3,913.27	3,522.05
Nurses' Home	501.45	444.75
Superintendent's residence	646.40	1,448.75
Business office	430.02	502.75
Extension office	1,643.49	2,444.75
Stenographers' building	145.70	369.65
Dairy	326.73	286.00
Linen and bedding	2,566.60	6,024.00
Laboratory and medical office	669.83	703.08
Crockery and silver		760.91
Farm machinery and tools	474.15	1,448.80
Automobile and dray	285.00	775.00
Library	125.00	125.00
Stereopticon outfit	118.20	118.20
Supplies:		
Hospital	1,866.81	3,125.17
Farm, feed, etc.	484.06	520.00
Dairy, feed, etc.	2,489.60	1,402.00
Provisions	648.58	2,204.15
Coal	85.00	*
Business office	98.35	324.16
Extension office	212.50	239.75
Books, Training School	85.30	93.50
Drugs and medicines		133.55
Live-stock:		
Dairy animals	2,890.00	5,765.00
Farm animals	1,710.00	1,600.00
Hogs	1,783.50	1,728.00
Cash	687.74	2,445.84
	$159,072.52	$201,681.71
Increase in assets		42,609.19

*See P. H. L. W. R. & P.

Liabilities and Surplus

	Dec. 1, 1916	*Dec. 1, 1917*
Page Trust Company, overdraft	$ 10.00	$ 2.60
Bank of Hoke	96.39	36.61
Surplus	158,966.13	201,642.50
	$159,072.52	$201,681.71

CASH REPORT OF THE NORTH CAROLINA SANATORIUM, YEAR ENDING NOVEMBER 30, 1917

State appropriations:			
Permanent improvement		$ 25,000.00	
Extension		10,000.00	
Maintenance		30,000.00	
Page Trust Company, overdraft		2.60	
Bank of Hoke, overdraft		96.39	$ 65,039.21
Patients' maintenance:			
Patients' board and treatment		$ 46,224.10	
Auto		403.33	
Laundry		1,111.69	
Hospital supplies		1,699.26	
Telephone and telegraph		57.55	
Postoffice (rent)		22.50	
Farms		309.08	
Dairy		252.95	
Examinations		75.00	
Provisions		533.02	
Power, heat, etc.		684.08	
Salaries		7.20	
Hogs		200.00	
Cash on hand December 1, 1916		687.74	
		$ 52,327.50	
Less:			
Cash on hand December 1, 1917	$2,445.84		
Page Trust Co., overdraft	10.00		
Bank of Hoke, overdraft	96.39	2,552.23	49,775.27
Expenditures as per disbursement sheet			$114,814.48

NUMBER OF PATIENTS SUPPORTED BY AGENCIES OTHER THAN SELF, AND NAME OF ORGANIZATION AND AMOUNT PAID, 1917

Name of Club or Organization	*Number Patients Supported*	*Amount Paid*
Woman's Club, Raleigh, N. C.	2	$ 191.00
Pasquotank County, Elizabeth City, N. C.	2	151.00
Proximity Mfg. Co., Greensboro, N. C.	1	198.00
The Hearthstone, Chicago, Ill.	1	146.00
Buncombe County, Asheville, N. C.	1	243.00
Associated Charities, Winston-Salem, N. C.	1	121.00
Junior Order, Winston-Salem, N. C.	2	75.00
Jefferson Standard Life Ins. Co., Greensboro, N. C.	2	302.00
Woman's Club, Greensboro, N. C.	3	563.00
Forsyth County, Winston-Salem, N. C.	1	122.00
Associated Charities, Goldsboro, N. C.	2	532.00
Hoke County, Raeford, N. C.	1	62.00
Town of Maxton, Maxton, N. C.	1	31.00
Associated Charities, New Bern, N. C.	1	30.00
Sunday School, First Pres. Church, Raleigh, N. C.	1	92.00
British Government, Wilmington, N. C. (consulate)	1	346.00
Anti-Tuberculosis Society, Concord, N. C.	1	62.00
Methodist Orphanage, Raleigh, N. C.	1	214.00
Vick Chemical Company, Greensboro, N. C.	1	91.00
Presbyterian Church, Kinston, N. C.	1	182.00
Total	27	$3,754.00

FIFTH ANNUAL REPORT

OF THE

North Carolina Sanatorium for the Treatment of Tuberculosis

UNDER CONTROL OF STATE BOARD OF HEALTH

SANATORIUM, N. C.

1918

RALEIGH
EDWARDS & BROUGHTON PRINTING COMPANY
STATE PRINTERS
1919

NORTH CAROLINA SANATORIUM

FOR THE TREATMENT OF TUBERCULOSIS

(Under the control of the State Board of Health)

PERSONNEL

MEMBERS STATE BOARD OF HEALTH

Dr. J. Howell Way, *President* ..... Waynesville
Dr. Richard H. Lewis ..... Raleigh
Col. J. L. Ludlow ..... Winston-Salem
Dr. E. C. Register ..... Charlotte
Dr. Thomas E. Anderson ..... Statesville
Dr. Charles O'H. Laughinghouse ..... Greenville
Dr. Edward J. Wood ..... Wilmington
Dr. F. R. Harris ..... Henderson
Dr. Cyrus Thompson ..... Jacksonville

Dr. W. S. Rankin, *Executive Secretary*, Raleigh, N. C.

Superintendent ..... L. B. McBrayer, M.D.
Assistant Superintendent ..... P. P. McCain, M.D.
Assistant Physician ..... S. W. Thompson, Jr., M.D.*
Assistant Physician ..... J. L. Spruill, M.D.
Private Secretary to Superintendent ..... A. W. Snow
Head Nurse ..... Miss Mamie O'Kelly*
Head Nurse ..... Miss Mattie Dunlap
Cashier ..... V. F. Hill
Purchasing Agent ..... J. M. Clark
Farmer ..... S. A. Perry

EXTENSION DEPARTMENT OF THE NORTH CAROLINA SANATORIUM FOR THE TREATMENT OF TUBERCULOSIS

Bureau of Tuberculosis, State Board of Health

Chief of Bureau ..... L. B. McBrayer, M.D.
Assistant Chief of Bureau ..... P. P. McCain, M.D.
Office Secretary ..... A. W. Snow
Stenographer ..... Miss L. Thorpe
Stenographer ..... Miss L. Lindly
State Director of Public Health Nursing ..... Miss Rose M. Ehrenfeld
Director Organization and Education Among the Negroes ..... Florence C. Williams

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*On overseas duty.

STATE RED CROSS SEAL COMMISSION

MRS. C. C. HOOK, *Chairman*, Charlotte
MR. HAMILTON C. JONES, *Treasurer*, Charlotte
DR. OTHO ROSS, Charlotte
MRS. G. M. FINGER, Charlotte
MRS. CHARLES R. WHITAKER, Hendersonville
MRS. MARK QUINERLY, Greenville
MRS. D. R. LAFAR, Gastonia
MRS. C. MARTIN, Wilmington
MRS. W. N. HUTT, Raleigh
MRS. T. D. JONES, Durham
DR. W. L. DUNN, Asheville
MRS. S. H. BROWN, Oxford
COL. J. L. LUDLOW, Winston-Salem
MRS. J. L. WETMORE, Arden

DR. L. B. MCBRAYER, Executive Secretary

A. W. SNOW, Assistant Secretary

LETTER OF TRANSMITTAL

Dr. W. S. Rankin, *Secretary,*
State Board of Health,
Raleigh, N. C.

My Dear Doctor:—I hereby transmit to you, and through you to the State Board of Health and the Governor and General Assembly, a report, being the fifth annual report of the North Carolina Sanatorium for the Treatment of Tuberculosis for the year 1918.

Very respectfully yours,

L. B. McBrayer,
Superintendent.

FIFTH ANNUAL REPORT

OF

THE NORTH CAROLINA SANATORIUM FOR THE TREATMENT OF TUBERCULOSIS

UNDER CONTROL OF

THE STATE BOARD OF HEALTH

SANATORIUM, N. C.

We are pleased to report progress along every line of endeavor.

Permanent Improvements

We have erected during 1917 and 1918 5 two- to four-room houses for servants; a brick building with slate roof, two stories high, which is intended for "up-patients," and consists of four separate flats, each flat to hold five patients, and each flat being entirely private as regards the other flats. This building has been worked out as a model for the use for which it is intended, and is so considered by all who have seen it, and is entirely satisfactory to us. It is occupied at present by our nurses.

We have installed another boiler, 150 horse-power, and made the necessary enlargements to our boiler-house to accommodate it. We have put in a new eight-inch well with necessary equipment, and this well has proven very satisfactory to date, its maximum flow being seventy-five gallons per minute from a depth of two hundred and sixty-seven feet. We have built a concrete reservoir that holds forty thousand gallons and a stand-pipe one hundred and four feet high with a tank on top holding fifty thousand gallons. We have connected these up with six-inch water mains and extended the same size mains throughout the grounds where most of the large buildings are, placing fire plugs at convenient intervals.

We have now under construction our cow barn, feed barn, silos, and bottling plant. One concrete silo of two hundred and forty-ton capacity has been completed; the cow barn with a capacity of fifty-two cows and the feed barn are now ready for the concrete floors.

Loss by Fire

On December the 14th, 1917, we had the misfortune to lose one of our hospital buildings, known as Brooks Hall, by fire. The fire was caused by a brick falling out of the chimney where it was only one brick thick and at a point that was not visible on careful examination before the building was destroyed. The gross and net loss is shown in complete detail in our financial statement. Although the fire occurred at 2:30 a. m., and the ground was covered with ice and snow, the patients suffered no untoward effects. The patients saved all their belongings and helped in saving linens, furniture, etc.

INFLUENZA

We were fortunate, by strict quarantine, to be able to keep influenza out of the Sanatorium until November 23, 1918, when it was brought in by one of the servants. Within a week every servant but four, every nurse but two, one of our stenographers, one of the medical staff, ten patients, and three members of the Superintendent's family were ill with the disease. We were fortunate in that no deaths occurred, unless one patient, a very far advanced case that had been gradually growing worse and was absolutely hopeless, who died at this time, could be said to have died of the disease. There were thirty-two cases out of a population of one hundred and ninety.

Upon request of the State Board of Health, Captain C. E. Waller, U. S. P. H., furnished us sufficient influenza vaccine to vaccinate all our people. It was not forced upon them, but we recommended that they take it, and we took it ourselves. One hundred and sixty-four availed themselves of the opportunity. Only two patients who had the three doses developed influenza—one of these on the day the last dose was given and the other two days after the last dose was given. About one-half dozen who did not take the vaccine treatment did not develop the disease.

You may guess that we were greatly handicapped in our work with such a large percentage of the medical staff, nursing staff, and servants ill at the same time. We are greatly indebted to Miss Rose M. Ehrenfeld, State Director of Public Health Nursing; the American Red Cross for sending us three nurses; and the following patients, who helped serve meals to infirmary patients, helped take temperatures, and assisted in any other way they were needed:

Men	*Women*
Mr. W. T. Skinner	Mrs. Roy Black
Mr. W. R. Sheppard	Mrs. Emma Bunker
Mr. F. F. Brotherton	Mrs. Estelle Moore
Mr. H. C. Brown	Mrs. D. R. John
Mr. J. H. Cline	Mrs. Bertie Thompson
Mr. J. F. Carter	Mrs. E. C. Mallonee
Mr. Henry Clark	Miss Sallie Crews
Mr. L. W. Grantham	Miss Eula Hunter
Mr. E. C. Hemmingway	Miss Roxie Samuel
Mr. Marvin C. Hoggard	Miss Ethel Byrd
Mr. F. L. Saunders	Miss Gertrude Harris
Mr. J. F. Hannah	Miss Essie DeVinney
Mr. W. R. Johnson	Miss Lillie Nash
Mr. C. W. Hall	
Mr. Stewart Beachum	
Mr. Roy W. Barnette	
Mr. W. C. Averitt	

All of the patients volunteered their services and stood ready to aid in any way possible. The sweet spirit of the patients and the absolute absence of fear on their part was appreciated greatly and is worthy of remark.

On account of the magnanimity of the Red Cross in donating their nurses, the refusal of Miss Ehrenfeld to make a charge, and the kindness of the Public Health Service in furnishing us vaccine without cost, the influenza did not increase our expenses in any way.

We desire to express our appreciation of the loyalty and devotion to duty of our acting head nurse, Miss Ingram, who is one of our recent graduates, and the other nurses during the trying times when the influenza was with us. The chef and the other servants are also deserving of our appreciation and have it to the fullest. Likewise all members of our force in whatsoever capacity employed.

TUBERCULOUS SOLDIERS

At the request of the Bureau of War Risk Insurance, we have taken a few soldiers who have tuberculosis. We have fourteen here at this time, have discharged as arrested three, and have admitted six more to come during December. These are all North Carolina boys, and the Bureau of War Risk Insurance pays us two dollars per day for their board and treatment. We beg to quote the following from Col. Chas. E. Banks, Chief Medical Adviser, Bureau of War Risk Insurance, in November, 1918, issue of the *Journal of Outdoor Life*, page eleven:

"No human problem however small seems untouched by the war. Not the least of these problems is the housing of tuberculous men, women, and children in sanatoria. And the needs are increasing rapidly. The operation of the selective service law is discovering many thousands of hitherto unknown cases of tuberculosis. Hundreds of them need sanatorium treatment.

"When the drafted men reach the camp they are examined as quickly as possible by the regimental surgeon and the special examiners, generally within a week. If found unfit because of tuberculosis or other physical disabilities they are at once rejected and returned to their homes. They have never been accepted as soldiers, and the Government apparently assumes no responsibility for them more than to furnish transportation back to their homes. They remain a civilian problem. And added to those rejected by the local boards, the whole number is becoming very serious. The number of those in the army who are breaking down is very considerable. The Medical Department of the army is building large hospitals for their care, but many of them are anxious to return to civilian life and are demanding their discharge. They are entitled to compensation and sanatorium treatment under the War Risk Insurance Act. It is the policy of the Bureau of War Risk Insurance to place them in sanatoria as near their homes as possible. The Bureau pays a maximum of fifteen dollars per week for their maintenance. Up to the present time, of the men who have applied for compensation for disability about one-half are tuberculous. There are not enough sanatoria nor nearly enough beds to provide treatment and care for this increasing number of known cases of tuberculosis.

"It must be understood that this sudden and great demand on the bed space of the existing sanatoria in this country cannot be met without extension of their facilities—even of a temporary character, and in order to maintain the morale of the public which remains at home, and to conserve the health of the people, it is necessary that a large proportion of these cases be given sanatorium treatment. *First*, for their own benefit, and *second*, to protect the health of the communities wherein they reside.

"This Bureau already has about four thousand cases under its jurisdiction, and is intending to place them in suitable sanatoria. This can be accomplished in some States, but is almost impossible in others owing to the long waiting lists which exist at many of the public institutions. I can, therefore, say, and emphasize the opinion, that provision for these unfortunate men is a secondary war work and should be met by the public-spirited citizens by making provisions for the extension of local sanatoria to take care of the needs of the public in those regions where the present facilities are inadequate.

"This Bureau needs bed space in almost every State for the care and treatment of these discharged soldiers and sailors who are beneficiaries of this Bureau under the act creating it.

"Awakened to the demands of the hour, a number of communities are planning to build either new sanatoria or additions to existing plants."

In connection with the above we desire to quote in full a letter from the Chief Medical Adviser of the Bureau of War Risk Insurance to the Superintendent of your Sanatorium, and submit the same in connection with the budget for next year's expenditures:

"It is desired to bring to your attention the fact that the sanatorium facilities of the United States for the care and treatment of the tuberculous are inadequate for the care of soldiers and sailors discharged from the military and naval forces suffering with that disease, plus incidence of tuberculosis among the civilian population, and this is more especially true in the South, which is painfully lacking in the number of beds available for white and colored patients.

"While North Carolina has an unusual number of large and well-equipped private sanatoria for the tuberculous, they are mostly available for persons of means who are able to pay special charges for special accommodations.

"There have been over one hundred and fifty men discharged from the army for tuberculosis in North Carolina, and in addition to these cases acquired in the line of duty in the service of their country, you have probably an even larger number of rejects from the Draft Board as a part of your civilian population.

"It is highly desirable that the State furnish some adequate means for the care and treatment of its discharged soldiers so that the problem confronting the Bureau of War Risk Insurance of placing these men where they can receive proper and adequate treatment will be partially solved, in so far as North Carolina is concerned.

"I would be obliged if you would take this up with the proper authorities if contingency funds are available, or with the Legislature if the situation be otherwise, and advise me what can be expected in the above line of sanatorium development to meet a serious economic and public health problem."

THE SOLDIER'S WIFE

It has been a great pleasure to be able to help keep up the morale of our boys with the colors by taking care of the wives of soldiers who went to the front. A case in point is

THE BRIDE OF A SOLDIER BOY

"One morning in June, 1918, the telephone rang and a young man's voice spoke distinctly, resolutely, and asked if he could speak to the Superintendent of the North Carolina Sanatorium for the Treatment of Tuberculosis. To the Superintendent he said: 'This is Private W————, from Camp ————; I desire to see you personally in regard to my wife.' The Superintendent invited him to come out to the Sanatorium.

"In a short time he presented himself, bringing his young wife with him, and made the following statement: 'My wife was with me at camp and was taken sick. I sent her to my father's home in ———— County, N. C., and later I learned that she had tuberculosis. I consulted our physician, Dr. ————, and he advised me to bring her on down here, saying that he knew the Sanatorium was full—it always is; and he said that he also knew that it was necessary to make formal application and let the application take its place on the waiting list, but there was no time for this now. He said that he knew the Superintendent had a heart in him and that you would do whatever you could for us. So here we are, and my furlough will expire by limitation in thirty hours.' The Superintendent said: 'We will take your wife and take care of her. It is true we haven't a vacant bed on the place, but we

will let your wife sleep on a reclining chair until we can get a vacant bed. Your allotment will take care of the amount patients are required to pay here, and I will guarantee that the other needed expenses, such as clothing, etc., will be provided through Red Cross Seals or the Home Service Committee of your county chapter of the American Red Cross. The point is, you are going to fight for our country, for yourself, and your wife, and your mother, and your unborn children, and those of us who remain at home, and we want you to know and to feel that those of us who are left behind are going to take care of your wife just as well and perhaps better than you could have done had you remained at home.' The private's face brightened up and in six hours he left to join his command."

LIBRARY

Many kind friends have continued to donate books to our patients' library until we now have more than fifteen hundred volumes. The bookcases have also been donated and the library is well equipped as mentioned above, and we have no doubt that friends will continue to donate books. The only handicap is that we have no room anywhere for the library and we are using a narrow hallway at present, which is extremely unsatisfactory and causes much crowding and inconvenience.

We desire to express our appreciation to those interested friends who have made our library possible. It is a great comfort and pleasure, as well as profit, to the patients.

X-RAY LABORATORY

The Sanatorium has needed an X-ray laboratory these many years, but seemingly could never save out sufficient money from any fund with which to pay for it. The State Red Cross Seal Commission came to our rescue and requested us to buy the best equipment that could be had and send the bill to them. The total amounted to thirty-five hundred dollars, for which sum we are profoundly grateful.

ROOMS FURNISHED

The local Red Cross Seal Committee of Laurinburg has sent sufficient money to pay for furnishing two rooms, and the Southern Pines Red Cross Seal Committee has furnished one room. We greatly appreciate their kind thoughtfulness.

SUNDAY SCHOOL LITERATURE

Miss Grace MacKinnon, a trained nurse now with the colors, has paid for our Sunday School literature for more than two years, sending her check for five dollars every quarter. The Sanatorium and the Sunday School appreciate this greatly.

We have had many other donations from interested friends, for which we are always appreciative.

TRAINING SCHOOL FOR NURSES

Our training school for nurses has proven a success from the beginning. At this time every nurse is an arrested case of tuberculosis, all of them having taken treatment here.

PATRIOTISM

Every one connected with the Sanatorium in any way has on every occasion shown their loyalty to the cause for which we have been at war. They have invested in War Stamps and Liberty Bonds and have contributed liberally

to the Red Cross and other war activities. In the Red Cross Christmas Roll Call the percentage of enrollment was one hundred. But it perhaps was the Fourth Liberty Loan that brought out the best in us. All who thought themselves able bought bonds. Then several Liberty Loan clubs were formed of two or more people, and after that the crowning event was the purchase of three hundred dollars worth of Liberty Bonds by the Ladies' Missionary Society and the Sunday School, and other smaller contributors, and donating them to the Sanatorium as a nucleus for an endowment fund.

SUNDAY SCHOOL AND OTHER RELIGIOUS SERVICES

We have had a Sunday School since shortly after the Sanatorium came under the present management. It was organized by Dr. P. P. McCain, Assistant Superintendent of the Sanatorium, and meets every Sunday afternoon or evening. It is a source of much pleasure, comfort, and spiritual improvement to all of us. Often we have had one of the patients for superintendent and one for teacher. At this time Mr. W. R. Sheppard (a patient) is superintendent and Dr. J. L. Spruill, of the medical staff, is the very able teacher.

We are at this time having a midweek prayer service, conducted by Dr. J. L. Spruill.

We have usually had midweek preaching services by some one of the ministers in this territory, but since Rev. H. O. Nashe, Rev. W. T. Baucom, and Rev. Eugene Alexander have gone to the war as chaplains from this section, we have done without preaching services.

Our Sunday School and midweek prayer service was not interrupted on account of the influenza.

VEGETABLES AND CANNING

Our truck garden furnishes us with all the vegetables for our table the greater part of the year and continues to furnish us at this time (December 1, 1918) sweet potatoes, Irish potatoes, and salad greens of various kinds. And in addition, on a

HOME-MADE CANNING PLANT

we canned last summer (1918) five tons of peaches and seven tons of soup mixture, beans, tomatoes, etc. We are indebted to Mrs. McBrayer and Mrs. McCain for the canning. It was their insistence that pushed us into it two years ago, and it was their management and their labor that made it possible for us to can the twelve tons of canned goods last summer at a total cost for labor of thirty-five dollars. Of course we had to buy the cans and we had to buy the peaches, but the vegetables were all raised on our own truck garden.

MOVING PICTURES

We are indebted to the State Department of Education for placing us on their Hoke County Moving Picture Circuit, and thus furnishing us moving picture entertainments twice a month without cost to us. We also appreciate the many kindnesses of Mr. Williamson, the Manager.

HIGH PRICES

It is unnecessary for us to mention to you the high price of food, coal, furnishings, etc., for you have had personal experiences with these things.

And it is useless to dilate on the difficulties of furnishing fuel through the hard winter of 1917-18, with railroads confiscating your cars when they so desired, and finally finding yourself out of coal with the mercury at zero. But perhaps, after all, the increased prices offered for labor of all kinds, whether physical or mental, has handicapped us most. Feeling that we did not have sufficient funds to pay the increased prices for labor, etc., we have had many more changes in our force than heretofore. Add to this the fact that every able-bodied person connected with the Sanatorium within the age limits went to the war, and you will see that it has made our working force very much less efficient. Those who remained have been for the most part loyal, devoted, and faithful to duty. It seems that we will have to revise our ideas upward in regard to the price of help.

OUR HONOR ROLL

Captain Reuben A. McBrayer, M.C.
Lieutenant S. W. Thompson, M.C.
Miss Mamie O'Kelly (Head Nurse), Overseas
Lewis B. McBrayer, Jr., S. A. T. C.

ORDERLIES

John Graham
Wm. McIntyre
Gus Miller
Claudius Reeves

PATIENTS

Mr. Rufus Routh
Mr. W. N. Claywell
Mr. E. C. Weisner
Mr. Jas. S. Price
Mr. W. E. McLauchlin
Mr. Wesley S. Graves
Mr. P. C. Blake
Mr. L. B. Hornaday
Mr. J. C. Iseley
Mr. J. L. Brown
Mr. J. T. Shamel
Mr. J. H. Clodfelter
Mr. Oscar L. Smith

DEMANDS FOR ADMISSION

As the character of the work done and the results accomplished have become more widely and better known throughout the State, the demands for admission have become more and more insistent, and we know that the time has come when a more liberal provision should be made for enlargements and betterments.

THE EXTENSION DEPARTMENT

WHICH IS

THE BUREAU OF TUBERCULOSIS

OF THE

STATE BOARD OF HEALTH

For a statistical and financial report of the doings of this Department you are referred to another part of this report.

Enforcement of Law, Etc.

We have continued the enforcement of the law requiring the reporting of all cases of tuberculosis to this Bureau, the same as measles, diphtheria, etc., is required to be reported to the Bureau of Epidemiology of the State Board of Health, and have sent literature to each case reported, giving detailed instructions as to the hygiene of tuberculosis and especially emphasizing the importance of not communicating the disease to others, and pointing the way. We have also furnished sputum cups to those ordering them and have otherwise conducted a correspondence with patients and their families to the end that we might be of the most help possible to them.

Correspondence With Physicians

We have continued our correspondence with physicians. Many physicians of the State have complimented this work and stated that it has been of great help to the physicians of the State, and some have stated that a different and much improved attitude was noticeable in the profession as a whole. Other States have spoken highly of this work and have requested and received copies of this correspondence for use in their own States.

Literature

We have prepared and sent out such literature as seemed advisable and as the means at our command would allow, but not nearly so much as should have been done, nor has the literature been printed in the attractive style and colors that should have been done, which was also due to lack of sufficient funds. In the Liberty Loans, War Savings Stamps, Red Cross, and other drives our Government has used the printers' and the lithographers' art to the very fullest, and it was no doubt money well spent, else they would not have continued to spend thus seemingly lavishly. The Government also used so-called "catch phrases" to splendid advantage. While we couldn't follow the Government in its display advertising for lack of funds, we did to some extent follow it in its "catch phrases," which proved to be well worth while, judging by the number of States that copied these things, one small leaflet having been copied by ten States, another by five.

PUBLIC HEALTH NURSING

Owing to the war we were for some time without a State Director of Public Health Nursing, but latterly we have been very fortunate in securing the services of Miss Rose M. Ehrenfeld, who is well qualified from education, training, and experience to take charge of and direct this important field of health work, and especially important in the campaign against tuberculosis. The Metropolitan Life Insurance Company pays half the salary and half the traveling expenses of this Director.

We have also been handicapped in securing a sufficient number of public health nurses to supply the needs of local communities, because every cantonment zone must have from one-half to one dozen, and many felt that they must obey the call of their country and man with nurses our base and other hospitals "over there" and "over here." Now that demobilization is taking place rapidly, it is expected that shortly we will be able to supply the present demands, if not the *needs*, for public health nurses in our State.

WORK AMONG THE NEGROES AS A RACE

We had felt for some time that we were not getting information to the negroes of our State in regard to the prevention of the spread of tuberculosis as we ought, but at last we were fortunate in securing the services of Florence C. Williams (col.) as State Director of Organization and Education Among the Negroes in the State. At the same time, in coöperation with the Department of Education through Prof. N. C. Newbold, we secured much help from his rural supervisors of negro schools and through them to the teachers and people. This coöperation is to be continued and enlarged this coming year.

Mrs. Williams also was on the staff of the summer schools and institutes and did a most extraordinary fine piece of work in them during the summer.

One feature of this work was organizing negro community leagues, and there have been organized 482, with a membership of 16,731. These leagues were to hold monthly mass meetings, appoint committees, locate the tuberculous in the community, teach them, minister unto them, and otherwise endeavor to teach the people in the community how to prevent the spread of tuberculosis and other diseases. These leagues have grown so valuable that it is now intended to magnify them by making them the sole organization in the community for the improvement of the conditions of the negro, and the other departments of State will join with us and use them too.

TUBERCULOSIS CLINIC

Our tuberculosis clinic at the Sanatorium has a very interesting history, perhaps worthy a word of comment. It was opened to the public in the latter half of 1914, shortly after the present management took charge of the Sanatorium. Patients were allowed to come at any time, and we stopped in the middle of whatever we might be doing and examined them. They soon began to come in larger numbers until we found it necessary to require them to come during certain hours. The growth continued, and we had to require them to write us and allow us to assign them a date and hour on which to come for examination. We have done as many as 112 in a month, that being the number we did during the month of August, 1918. We have fifty waiting for examination at this writing.

Our desire is to have a diagnostic laboratory the equal of any in the world. Why not? Why should citizens of North Carolina journey to Richmond or Baltimore or Saranac Lake, or even to Asheville, to find out whether or not they have tuberculosis? A prominent layman interested in our people says: "The trip to Asheville is long and the hotels and doctors are high in their charges; the trip to Sanatorium is also long and inconvenient for many. Couldn't you establish a clinic for which you could vouch in many different parts of the State?" To this we replied, "Yes, if we had the funds," and we then told him of the

COURSE IN PHYSICAL DIAGNOSIS

we are offering to physicians and the arrangement we have with the Bureau of County Health Work of the State Board of Health to establish a clinic in each of the counties that have whole-time health departments, and of our desire to establish one or more

TUBERCULOSIS CLINICS

in every congressional district, and then the plain cases, i. e., those who plainly have it or plainly don't have it, could be handled at these clinics and the doubtful cases could be passed up to the Sanatorium for further study. This is really the next important move.

TUBERCULOUS SOLDIERS

The soldiers discharged from our army on account of tuberculosis who gave North Carolina as their legal residence have been reported to us by the War Department through the National Tuberculosis Association, and we have written them personal letters and sent them printed matter in an endeavor to impress upon them the seriousness of being discharged from the army on account of tuberculosis, and the much more serious matter of having tuberculosis, and the wisdom and necessity of securing proper treatment.

We have also conferred with the Southern Division of the American Red Cross and secured its coöperation through the Home Service Committees in visiting these cases and endeavoring to get them to take an examination in order to find out their condition and then to take the necessary treatment, the Home Service Committee being instructed to take care of the family when necessary in order that the soldier might take sanatorium treatment, etc., etc.

Latterly the Bureau of War Risk Insurance is paying for sanatorium treatment for these men, i. e., those who were discharged shortly after going to camp and who they formerly refused to accept responsibility for. We also have arrangements with the Bureau of War Risk Insurance by which we aid these men in making application for treatment and care and for their insurance. We have had reported to us 552, and 27 of them have and are receiving treatment at our Sanatorium.

DRAFT REJECTS

We also secured the names of all men rejected by the local and district exemption boards, through the kindness of the Governor and Adjutant General issuing proper orders, and have conducted similar correspondence with them as with the discharged soldiers, and we have the promise that the Home Service Committees will, in the near future, visit them and endeavor to be of

help to them. But the Government nor the Red Cross assumes any obligation in the treatment of these draft rejects, and it therefore continues to be a civilian problem which is being very poorly handled for lack of funds. We have had reported to us 1,342 of these.

It may be of interest to say that only one other State secured these names, and therefore only two States have reached these draft rejects in any way; and so in these other States they went back home to their civil occupations, many of them not even being aware of the fact that they had been rejected on account of tuberculosis, or that they had the disease.

ASSISTANT COLLABORATING EPIDEMIOLOGIST, UNITED STATES PUBLIC HEALTH SERVICE

The Government has recognized our work in this department by appointing us Assistant Collaborating Epidemiologist, and has given us its franking privileges so far as the reporting of cases of tuberculosis is concerned. This applies to all our correspondence with physicians and others in regard to the reporting to us of cases of tuberculosis and to the physicians and others who report cases to us, and saves us and them the postage usually required to carry on this work.

The Government in establishing its cantonments in this State requested information in regard to the incidence of tuberculosis in the proposed cantonment zones, which was furnished, and after the cantonments were established we coöperated with those in charge of the health work in the cantonment zones.

There are many other things that could be written of the work that has been done and is being done, but this report is already too long, and we close by appending hereto a roster of literature of the Bureau of Tuberculosis of the North Carolina State Board of Health.

LITERATURE OF THE BUREAU OF TUBERCULOSIS OF THE NORTH CAROLINA STATE BOARD OF HEALTH

MAILED ON REQUEST, WITHOUT CHARGE

TITLE OF BULLETIN

Bulletin No. 36—Tuberculosis: Its Nature and Prevention.

Bulletin No. 39—Important Facts About Tuberculosis and Your Chances Against It.

Bulletin No. 61—How to Care for a Tuberculous Patient.

Bulletin No. 70—Tuberculosis: What Those Who Have It and Those Who Live With It Should Know About Tuberculosis, and What Well People Should Know About It.

Bulletin No. 117—Tuberculosis: Its Symptoms, Prevention, and Cure.

Bulletin No. 129—County Tuberculosis Problem.

Bulletin No. 157—The Problem of the Returned Tuberculous Soldier.

Bulletin No. 92—An Act to Prevent the Convicts or Prisoners of North Carolina from Contracting Tuberculosis.

Bulletin No. 1000—Public Health Nursing.

Bulletin No. 1001—A Perfectly Legal Murder.

The Incidence and the Importance of Pleurisy in Early Tuberculosis, by P. P. McCain, Sanatorium, N. C. (Reprint from the *Southern Medical Journal.*)

The Greatest Mother in the World—After the War.

While He Fights Over There.

Is Your Muffler Working or Your Cut-out Open?

After the "Flu," What? "Watch Your Step."

They Are Dead.

Camouflage.

U-Boat-Warfare Against the United States, Including North Carolina.

A Plea for An Earlier Diagnosis of Pulmonary Tuberculosis by the General Practitioner, by J. H. Way, Waynesville, N. C. (Reprint from the *Charlotte Medical Journal.*)

The Diagnosis of Early Pulmonary Tuberculosis for the General Practitioner, by Dr. S. E. Thompson, Carlsbad, Tex. (Reprint from the *Charlotte Medical Journal.*)

A Modern Prophecy, by Benjamin K. Hays, Oxford, N. C. (Reprint from the *Charlotte Medical Journal.*)

SUMMARY OF YEAR'S WORK, EXTENSION DEPARTMENT

DECEMBER 1, 1917, TO NOVEMBER 30, 1918

Letters and postals received		22,578
Letters written:		
Individual	22,459	
Multigraph	29,511	
Total		51,970
Articles written (approximate number words):		
Newspapers	2,950	
Bulletin	2,150	
Official pamphlets	14,900	
Other publications	800	
Total		20,800
Forms and placards prepared		69
Total number copies of forms and placards		5,621
Blank cards mailed for reporting cases of tuberculosis		188,970
Number cases reported:		
White	2,152	
Black	1,362	
Total		3,514
Literature sent to reported cases		10,249
Other literature sent out		95,702
Mailing cases distributed		64
Sputum cups distributed		96,250
Tuberculin sent physicians for Von Pirquet diagnostic test		321
Blanks for reporting results of Von Pirquet diagnostic test		321
Patients' histories written (325); approximate number words		163,059
Envelopes addressed		20,270
Addresses delivered:		
Number		42
Total audience		4,665
Conferences with local authorities		121
Days out of office		81
Outside patients examined for diagnosis		738

EXTENSION DEPARTMENT

SUMMARY OF WORK AMONG THE NEGROES YEAR ENDING NOVEMBER 30, 1918

Number of Leagues organized	482
Members	16,731
Meetings reported held	830
Total attendance	29,874
Total number addressed by supervisors on health topics	65,295
Total number present at meetings of the Home-Makers' Clubs, where conservation of food was taught	18,072
Total number reached by Mrs. F. C. Williams in addresses on health and sanitation	30,125
Total number reached in all ways	143,366

MEDICAL REPORT, 1918

Statistical

Number patients to be reported on	300
Number patients not tuberculous	14
Number patients not classified	2
Number patients in Sanatorium December 1, 1918	113
Total number patients treated during the year	429

40 PATIENTS WHO STAYED LESS THAN 30 DAYS.

Condition on Admission		Condition on Discharge					
		Arrested	Apparently Arrested	Quiescent	Improved	Unimproved	Died
Incipient	12	0	0	0	12	0	0
Moderately advanced	16	0	0	0	14	2	0
Far advanced	12	0	0	0	3	6	3
Acute tuberculosis	0	0	0	0	0	0	0
Totals	40	0	0	0	29	8	3

Average stay, 16.75 days. Longest stay, 29 days. Shortest stay, 3 days.

Number Gained Weight, 22		Number Lost Weight, 9	
Average gain	4.21 Lbs.	Average loss	3.09 Lbs.
Largest gain	12.5 Lbs.	Largest loss	5.5 Lbs.
Smallest gain	.25 Lb.	Smallest loss	1 Lb.
Stationary	1	Not weighed	8

73 PATIENTS WHO STAYED FROM 30 TO 89 DAYS.

Condition on Admission		Condition on Discharge					
		Arrested	Apparently Arrested	Quiescent	Improved	Unimproved	Died
Incipient	17	0	0	7	10	0	0
Moderately advanced	33	0	0	8	20	4	1
Far advanced	23	0	0	1	7	14	1
Acute tuberculosis	0	0	0	0	0	0	0
Totals	73	0	0	16	37	18	2

Average stay, 56.53 days. Longest stay, 89 days. Shortest stay, 30 days.

Number Gained Weight, 47		Number Lost Weight, 22	
Average gain	7.88 Lbs.	Average loss	3.35 Lbs.
Largest gain	24 Lbs.	Largest loss	9.75 Lbs.
Smallest gain	.5 Lb.	Smallest loss	.25 Lb.
Stationary	4	Not weighed	0

187 PATIENTS WHO STAYED 90 DAYS OR MORE.

Condition on Admission		Condition on Discharge					
		Arrested	Apparently Arrested	Quiescent	Improved	Unimproved	Died
Incipient	46	5	32	6	3	0	0
Moderately advanced	85	0	16	46	15	7	1
Far advanced	56	0	1	18	17	17	3
Acute tuberculosis	0	0	0	0	0	0	0
Totals	187	5	49	70	35	24	4

Average stay, 191.95 days. Longest stay, 665 days. Shortest stay, 90 days.

Number Gained Weight, 149		Number Lost Weight, 38	
Average gain	14.27 Lbs.	Average loss	6.41 Lbs.
Largest gain	47 Lbs.	Largest loss	16.5 Lbs.
Smallest gain	.5 Lb.	Smallest loss	.5 Lbs.
Stationary	0	Not weighed	0

HISTORY OF HEMORRHAGE.

Negative		209
Positive	Previous only	77
	Previous and during residence	7
	During residence only	7
Total		300

RESULTS OF SPUTUM EXAMINATIONS.

Negative or no sputum		145
Positive	On admission	152
	During residence	132
	On discharge	120
Total		549

20 PATIENTS WHO TOOK THE TUBERCULIN TEST.

Positive	7
Negative	13
Total	20

Sex		Age						Civil Condition		
		5-19	20-29	30-39	40-49	50-59	60-70	Single	Married	Widowed
Male	143	15	71	35	13	6	3	75	63	5
Female	157	16	77	35	20	5	4	63	87	7
Totals	300	31	148	70	33	11	7	138	150	12

NATIONALITY.

Americans	298
Greek	1
Syrian	1
Total	300

COMPLICATIONS.

Adenitis	1	Hyperthyroidism	1	Pyopneumothorax	3
Aortic insufficiency	1	Hypertrophic cirrhosis of liver	1	Pellagra	1
Anal fistula	7	Ichthyosis	1	Periostitis	1
Arterio sclerosis	1	Laryngitis	40	Peritonitis	3
Arthritis deformans	1	Liver abscess	1	Pharyngitis	2
Bronchitis	5	Lung abscess	3	Pleurisy with effusion	4
Broncho-pneumonia	2	Malaria	1	Pregnancy	3
Empyema	1	Mastitis	1	Scoliosis	1
Enteritis	17	Measles	1	Septic arthritis	1
Endometritis	3	Mitral regurgitation	6	Syphilis	2
Epidydimitis	1	Otitis media	6	Varicose ulcer	1
Hydro-pneumothorax	1	Parenchymatous nephritis	3	Visceroptosis	1

OCCUPATIONS.

Automobile agent	1	Merchants	3
Aviator	1	Ministers	2
Bank cashier	1	Office clerks	9
Barber	1	Painters	2
Bookkeeper	1	Postoffice clerk	1
Bricklayer	1	Printer	1
Bridge builder	1	Proprietor iron foundry	1
Broker	1	Railroad clerk	1
Cabinet-maker	1	Railroad conductor	1
Cafe proprietor	1	Railroad fireman	1
Carpenters	6	Sailors	2
Cigar-maker	1	Sawyer	1
Clerks in stores	6	Seamstress	1
Cotton-mill employees	23	Section master	1
Editor	1	Soldiers	5
Farmers	43	Stenographers	4
Housekeepers	2	Stock dealer	1
Housewives	86	Students	23
House work at home	27	Teachers	10
Jeweler	1	Telegraph operators	3
Lawyer	1	Telephone superintendent	1
Liveryman	1	Traveling salesmen	4
Machinists	5		

TOWNS FROM WHICH THE 300 PATIENTS CAME.

Advance	1
Albemarle	1
Alexander	1
Apex	1
Arapahoe	1
Asheboro	1
Asheville	1
Aulander	1
Autryville	1
Ayden	2
Black Creek	1
Bailey	1
Beaufort	1
Belhaven	1
Bennett	1
Bentonville	1
Berkley, Va.	1
Bessemer City	2
Black Mountain	1
Blowing Rock	1
Boonville	1
Broadway	1
Buies	1
Buies Creek	1
Burlington	2
Campbell	1
Cana	1
Canton	1
Cary	3
Castalia	2
Chapel Hill	2
Charlotte	4
Clayton	1
Clinton	1
Conetoe	1
Columbia	1
Cooleemee	1
Concord	5
Creedmoor	1
Crutchfield	1
Dallas	1
Davidson	3
Druid	1
Duke	3
Dunn	5
Edenton	2
Elizabeth City	4
Elizabethtown	1
Elkin	1
Ellerbe	1
Elm City	2
Entwistle	1
Everetts	1
Farmville	1
Fayetteville	6
Four Oaks	1
Friendship	1
Garner	1
Gibsonville	1
Godwin	1
Goldsboro	6
Graham	1
Granite Falls	1
Grantsboro	1
Greensboro	19
Guilford	1
Hallsboro	1
Hamlet	1
Hamptonville	1
Harrellsville	1
Hendersonville	1
Henry	1
Hester	1
Hickory	3
High Point	5
Hillsboro	2
Holly Springs	1
Hookerton	1
Hope Mills	2
Huntersville	1
Hurdle Mills	1
Jamesville	1
Kannapolis	1
Kernersville	1
King	1
Kings Mountain	2
Kinston	3
Lake Landing	1
Laurel Hill	1
Laurinburg	3
Lawndale	3
Leaman	1
Lenoir	1
Lewiston	3
Lexington	2
Lincolnton	1
Littleton	1
Louisburg	2
McConnell	1
Macclesfield	1
Madison	2
Maiden	1
Marion	1
Marshville	1
Maxton	3
Mebane	1
Merry Oaks	1
Monroe	3
Morven	1
Mount Airy	2
Nashville	1
New Bern	4
New London	1
Newton Grove	1
Norfolk, Va.	1
Oakboro	1
Ore Hill	1
Oxford	7
Pantego	1
Peletier	1
Pendleton	1
Pinnacle	1
Polkton	1
Princeton	1
Queen	1
Raeford	1
Raleigh	11
Randleman	3
Red Springs	2
Reidsville	2
Richlands	1
Rockingham	1
Rocky Mount	9
Rusk	1
Rutherfordton	2
Salisbury	2
Siloam	1
Sanford	2
Scotts Hill	1
Sharpsburg	1
Shelby	2
Smithfield	1
Snow Camp	1
Snow Hill	1
South Mills	1
Star	2
Statesville	2
Stem	1
Stokesdale	1
St. Pauls	4
Summerfield	1
Tabor	2
Taylorsville	1
Thomasville	1
Trenton	1
Valdese	1
Valmead	1
Wake Forest	1
Waxhaw	1
Wests Mill	1
Williamston	2
Wilmington	1
Wilson	3
Wingate	1
Winston-Salem	6
Youngsville	1
Zebulon	1

COUNTIES FROM WHICH THE 300 PATIENTS CAME.

Alamance	5	Greene	2	Pamlico	2
Alexander	1	Guilford	29	Pasquotank	1
Anson	2	Halifax	1	Pender	1
Beaufort	2	Harnett	9	Person	1
Bertie	4	Haywood	1	Pitt	3
Bladen	1	Hertford	1	Randolph	4
Buncombe	3	Hoke	1	Richmond	4
Burke	1	Hyde	1	Robeson	10
Cabarrus	6	Iredell	2	Rockingham	4
Caldwell	3	Johnston	5	Rowan	2
Camden	1	Jones	1	Rutherford	1
Carteret	2	Lee	3	Sampson	3
Catawba	4	Lenoir	3	Scotland	4
Chatham	3	Lincoln	2	Stanly	3
Chowan	2	Macon	1	Stokes	3
Cleveland	4	Madison	1	Surry	6
Columbus	3	Martin	4	Tyrrell	1
Craven	4	Mecklenburg	8	Union	6
Cumberland	8	Montgomery	3	Vance	1
Davidson	3	Moore	2	Wake	19
Davie	3	Nash	4	Watauga	1
Forsyth	7	New Hanover	1	Wayne	6
Franklin	3	Northampton	1	Wilson	6
Gaston	3	Onslow	1	Yadkin	2
Granville	10	Orange	4		

OUTSIDE PATIENTS EXAMINED FOR DIAGNOSIS AND CONSULTATION.

December	35	April	50	August	112
January	41	May	84	September	93
February	58	June	69	October	23
March	90	July	68	November	15
Total					738

SUMMARY MEDICAL REPORT DECEMBER 1, 1917, TO NOVEMBER 30, 1918.

Patients admitted:	
Incipient	70
Moderately advanced	144
Far advanced	78
Acute tuberculosis	2
Not classified	1
For test	9
Not tuberculous	3
Total	307
Patients discharged:	
Arrested	6
Apparently arrested	58
Quiescent	76
Improved	100
Unimproved	42
Died	10
Not tuberculous	12
Not classified	2
Total	306
Hospital days	41,514

LABORATORY REPORT.

Sputa (Miks.)	1,597
Urinalyses: (Miks.)	577
(Chem.)	577
Pleural fluid	15
Feces	25
Gastric	5
Total	2,796

PRESENT CONDITION OF ALL INCIPIENT PATIENTS DISCHARGED FROM THE SANATORIUM PREVIOUS TO JUNE 1, 1918.

Condition on Discharge	Condition June 1, 1918	Without Tuberculin					With Tuberculin					Total
		Discharged, 1914	Discharged, 1915	Discharged 1916	Discharged 1917	Discharged, 1918	Discharged, 1914	Discharged, 1915	Discharged, 1916	Discharged, 1917	Discharged, 1918	
Arrested 27	Living and working	1	4	4	8	2	0	1	0	1	0	21
	Living and not working	0	0	0	3	2	0	1	0	0	0	6
	Dead	0	0	0	0	0	0	0	0	0	0	0
	Lost	0	0	0	0	0	0	0	0	0	0	0
Apparently Arrested 101	Living and working	2	7	29	35	10	0	1	0	0	0	84
	Living and not working	0	1	2	5	6	0	0	0	0	0	14
	Dead	1	1	0	0	0	0	0	0	0	0	2
	Lost	0	1	0	0	0	0	0	0	0	0	1
Quiescent 44	Living and working	3	6	10	9	6	0	1	0	0	0	35
	Living and not working	0	0	0	3	3	0	0	0	0	0	6
	Dead	0	2	0	0	0	0	0	0	0	0	2
	Lost	1	0	0	0	0	0	0	0	0	0	1
Improved 52	Living and working	1	5	14	20	2	0	0	0	0	0	42
	Living and not working	0	0	3	2	1	0	0	0	0	0	6
	Dead	0	1	0	0	1	0	0	0	0	0	2
	Lost	1	0	0	1	0	0	0	0	0	0	2
Unimproved 4	Living and working	0	0	1	1	0	0	0	0	0	0	2
	Living and not working	0	0	0	0	0	0	0	0	0	0	0
	Dead	0	0	0	2	0	0	0	0	0	0	2
	Lost	0	0	0	0	0	0	0	0	0	0	0
Total 228	Living and working											184
	Living and not working											32
	Dead											8
	Lost											4

PRESENT CONDITION OF ALL MODERATELY ADVANCED PATIENTS DISCHARGED FROM THE SANATORIUM PREVIOUS TO JUNE 1, 1918.

Condition on Discharge	Condition June 1, 1918	Without Tuberculin					With Tuberculin					Total
		Discharged 1914	Discharged, 1915	Discharged, 1916	Discharged, 1917	Discharged, 1918	Discharged 1914	Discharged, 1915	Discharged 1916	Discharged, 1917	Discharged, 1918	
Arrested 12	Living and working	0	3	7	1	0	0	1	0	0	0	12
	Living and not working	0	0	0	0	0	0	0	0	0	0	0
	Dead	0	0	0	0	0	0	0	0	0	0	0
	Lost	0	0	0	0	0	0	0	0	0	0	0
Apparently Arrested 43	Living and working	3	4	6	5	6	0	1	1	0	0	26
	Living and not working	2	2	1	0	7	2	0	0	0	0	14
	Dead	1	2	0	0	0	0	0	0	0	0	3
	Lost	0	0	0	0	0	0	0	0	0	0	0
Quiescent 201	Living and working	7	9	29	40	10	2	3	2	0	0	102
	Living and not working	0	3	6	23	18	0	1	2	0	0	53
	Dead	6	9	24	2	2	1	1	1	0	0	46
	Lost	0	0	0	0	0	0	0	0	0	0	0
Improved 168	Living and working	16	10	16	18	9	0	0	0	0	0	69
	Living and not working	2	4	6	17	13	0	0	0	0	0	42
	Dead	19	15	11	11	0	0	0	0	0	0	56
	Lost	0	0	0	1	0	0	0	0	0	0	1
Unimproved 29	Living and working	0	0	2	2	0	0	0	0	0	0	4
	Living and not working	0	0	1	0	4	0	0	0	0	0	5
	Dead	3	5	3	3	4	0	1	0	0	0	19
	Lost	0	0	0	1	0	0	0	0	0	0	1
Total 453	Living and working											213
	Living and not working											114
	Dead											124
	Lost											2

PRESENT CONDITION OF ALL FAR ADVANCED PATIENTS DISCHARGED FROM THE SANATORIUM PREVIOUS TO JUNE 1, 1918.

Condition on Discharge	Condition June 1, 1918	Without Tuberculin					With Tuberculin					Total
		Discharged, 1914	Discharged, 1915	Discharged, 1916	Discharged 1917	Discharged, 1918	Discharged, 1914	Discharged, 1915	Discharged, 1916	Discharged, 1917	Discharged 1918	
Arrested 0	Living and working	0	0	0	0	0	0	0	0	0	0	0
	Living and not working	0	0	0	0	0	0	0	0	0	0	0
	Dead	0	0	0	0	0	0	0	0	0	0	0
	Lost	0	0	0	0	0	0	0	0	0	0	0
Apparently Arrested 0	Living and working	0	0	0	0	0	0	0	0	0	0	0
	Living and not working	0	0	0	0	0	0	0	0	0	0	0
	Dead	0	0	0	0	0	0	0	0	0	0	0
	Lost	0	0	0	0	0	0	0	0	0	0	0
Quiescent 50	Living and working	0	1	4	7	1	1	2	1	2	0	19
	Living and not working	0	4	0	6	1	0	2	0	0	0	13
	Dead	2	6	5	3	0	0	1	1	0	0	18
	Lost	0	0	0	0	0	0	0	0	0	0	0
Improved 125	Living and working	1	3	4	6	0	0	1	0	0	0	15
	Living and not working	0	0	8	14	13	1	0	2	1	0	39
	Dead	23	19	10	16	1	0	1	0	0	0	70
	Lost	0	0	0	1	0	0	0	0	0	0	1
Unimproved 90	Living and working	0	0	2	0	0	0	0	0	0	0	2
	Living and not working	0	1	0	1	4	0	0	0	0	0	6
	Dead	22	17	12	17	10	1	2	0	1	0	82
	Lost	0	0	0	0	0	0	0	0	0	0	0
Total 265	Living and working											36
	Living and not working											58
	Dead											170
	Lost											1

FINANCIAL STATEMENT

TRIAL BALANCE NORTH CAROLINA SANATORIUM, DECEMBER 1, 1918

Surplus		$219,338.28
Real estate (farm)	$ 12,005.64	
Real estate and hospital buildings	98,347.58	
Barns and silos	9,445.76	
Dining hall and kitchen furniture and fixtures	3,148.05	
Hospital, furniture and fixtures	6,049.80	
Nurses' Home, furniture and fixtures	1,500.00	
Superintendent's residence, furniture and fixtures	1,500.00	
Dairy fixtures	481.01	
Farm machinery and tools	1,686.75	
Farm live-stock	1,600.00	
Dairy live-stock	5,910.00	
Crockery and silver	471.00	
Linen and bedding	6,246.50	
Drugs and medicine	373.50	
Hospital supplies	14,543.20	
Farm expense (feed, etc.)	767.75	
Dairy expense (feed, etc.)	1,925.00	
Provisions	2,452.70	
Books (Training School)	90.00	
Accounts payable	15,325.26	
Page Trust Company (Per. Imp., O. D.)		1,646.04
Bank of Hoke	.10	
Hogs	2,707.50	
Stereopticon outfit	131.00	
Library (books donated)	135.00	
Office supplies and expense (business)	223.10	
Office supplies and expense (extension)	250.00	
Laboratory and medical office equipment	4,370.55	
Stenographers' home, furniture and fixtures	369.65	
Office equipment (business)	764.00	
Office equipment (extension)	2,257.50	
Power, heat, light, water, refrigeration, and plumbing	30,785.25	
Telephone system	2,499.74	
Sewer system and disposal plant	4,932.88	
Transportation and drayage	235.75	
Laundry plant	50.00	
Cash on hand	2,728.06	
Commercial Mills, Incorporated		931.37
C. W. Antrim & Sons		101.41
Aberdeen Hardware Company		10.48
Armour & Co.		526.02
Addressograph Company		4.06
S. T. Beveridge & Co		33.20
Carlisle Commission Company		715.08

Duparquet-Huot & Moneuse Co	$ 32.10
Commercial Printing Company	7.69
S. H. Couch & Co	13.75
Chero-Kola Bottling Company	30.00
J. E. Covington	7.70
City Telephone Company	81.70
Columbia Laundry Company	137.64
Clarendon Laundry Company	26.21
Clinchfield Fuel Company	580.92
General Electric Company	5.35
Mrs. W. A. Grover	12.97
Gold Medal Celery Garden	6.00
The Gibson Company, Incorporated	2.70
Hines Telephone Company	2.30
S. A. Hennis & Co	35.83
Herf & Frerich's Chemical Company	75.33
Huske Hardware House	14.20
Kingan & Co.	86.00
David Knight	10.52
W. H. King Drug Company	20.50
McNeill Bakery Company	148.60
Morehead City Sea Food Company	56.55
McRae Grocery Company	118.93
James McGraw, Incorporated	18.03
The Macmillan Company	1.80
McLaughlin Company	4.20
P. & J. Grocery Co	4.23
Stone & Forsyth Co	6,712.97
Sears, Roebuck & Co	147.32
Swift & Co. (Fayetteville, N. C.)	97.50
Swift & Co. (Richmond, Va.)	319.02
Southern Stamp and Stationery Company	12.37
Smith-Courtney Company	11.38
Standard Oil Company	78.14
W. F. Smith	2.24
Sharp & Dohme	10.20
J. M. Thompson & Co	339.64
George Tait & Sons	24.30
Virginia Machinery and Well Company	149.00
Union Carbide Sales Company	22.26
Veterinary Division, Department of Agriculture	29.35
E. R. West Company	51.00
Worrell Manufacturing Company	4.38
J. T. White & Co	60.00
Western Union Telegraph Company	27.44
J. S. Maultsby	10.00
Miscellaneous cash items: Maintenance appropriation	249.19
Extension	71.74
Patients' fund	1,365.92
November pay roll	1,739.53
	$236,309.58 $236,309.58

EXPENDITURES N. C. SANATORIUM, YEAR ENDING NOVEMBER 30, 1918

BROOKS HALL INSURANCE FUND

Buildings, new		$ 8,333.29

PERMANENT IMPROVEMENT FUND

Buildings: New (servants' quarters)	$ 2,585.10	
Improvements	295.99	
Furniture and fixtures: Nurses' home	1,383.93	
Office	5.25	
Domestic operations: Telephones	1,438.21	
Heat	11.03	
Water	1,318.64	
Laundry	50.00	
Dairy (Barns and silos)	7,291.59	
Sewer	29.00	14,408.74
		$ 22,742.03

EXTENSION FUND

Executive: Salaries	$ 6,345.19	
Traveling expense	1,895.53	
Office: Furniture and fixtures	234.52	
Books and stationery	1,109.34	
Stamps	1,182.80	
Hospital supplies	1,619.92	12,387.30

MAINTENANCE APPROPRIATION

Salaries: Medical	$ 3,615.00
Executive	1,625.00
Nurses and attendants	1,901.47
Cooks and servants	4,461.63
Supplies: Bedding and linen	450.45
Crockery and silver	94.16
Drugs and medicine	60.10
Hospital	3,838.40
Provisions: Meats	393.72
Butter	297.62
Eggs	723.60
Vegetables and fruits	260.31
Groceries	1,594.24
Miscellaneous	2.00
Equipment: Furniture and fixtures	190.30
Miscellaneous	5.05
Power, heat, light, water, plumbing and sewers:	
Labor	1,665.54
Supplies	6,559.51
Equipment	32.01

Farms: Buildings	$ 181.88	
Repairs to buildings	.50	
Machinery and tools	54.31	
Seeds and fertilizers	2,338.88	
Feed	512.72	
Labor	2,118.62	
Miscellaneous	7.25	
Dairy: Live-stock	360.14	
Fixtures	30.29	
Supplies	18.67	
Feed	4,503.96	
Labor	1,010.57	
Miscellaneous: Training School books	119.27	
Laundry	199.91	
Transportation and drayage	392.22	
Boiler insurance	43.55	
Interest	24.55	
Hogs	170.00	$ 39,857.40

PATIENTS' FUND

Salaries: Cooks and servants	$ 10.30	
Supplies: Bedding and linen	783.03	
Crockery and silver	360.63	
Drugs and medicine	501.43	
Hospital	2,918.65	
Provisions: Meats	7,401.54	
Butter	2,359.67	
Eggs	6,679.81	
Vegetables and fruits	1,701.91	
Groceries	7,549.26	
Miscellaneous	144.28	
Equipment: Furniture and fixtures	131.75	
Instruments	145.90	
Miscellaneous	2.70	
Office: Equipment	34.06	
Books and stationery	237.24	
Stamps	502.42	
Miscellaneous	44.34	
Power, heat, light, water, refrigerating, plumbing, and sewers:		
Labor	73.75	
Supplies	3,852.37	
Equipment	2.87	
Farms: Buildings	44.54	
Repairs to buildings	15.38	
Machinery and tools	214.42	
Seeds and fertilizers	963.32	
Feed	1,064.70	
Labor	288.69	
Miscellaneous	46.12	

Dairy: Live-stock	$ 137.75	
Fixtures	132.13	
Supplies	307.44	
Feed	1,674.95	
Labor	92.59	
Miscellaneous: Labor	.50	
Training School books	65.43	
Telephone and telegraph (messages)	639.98	
Laundry	3,355.54	
Transportation and drayage	1,084.82	
Refunds, board and treatment	1,352.05	
Hogs	144.08	
X-ray	503.56	$ 47,565.90
		$122,552.63

STATEMENT SHOWING DISPOSITION OF FUNDS

PERMANENT IMPROVEMENT FUND

Appropriation		$ 25,000.00
1919 appropriation, anticipated in accordance with action of the Building Commission at Henderson, June 27, 1918, and the minutes of the Council of State		3,550.00
		$ 28,550.00
Expenditures, as per disbursement statement	$ 14,408.74	
Loan from Ext. Fund, 1916-17, repaid	2,244.70	
Unexpended balance	11,896.56	28,550.00

BROOKS HALL INSURANCE

Amount of insurance received		$ 8,333.29
Expenditures, as per disbursement statement		8,333.29

MAINTENANCE FUND

Appropriation		$ 40,000.00
Expenditures, as per disbursement statement	$ 39,857.40	
Loan from Ext. Fund, 1916-17, repaid	142.60	40,000.00

EXTENSION FUND

Appropriation		$ 10,000.00
Loans repaid from Per. Imp. Fund	$ 2,244.70	
Loans repaid from Maint. Fund	142.60	2,387.30
Total		$ 12,387.30
Expenditures, as per disbursement statement		12,387.30

1918

Disbursements, Maintenance Appropriation Fund	$ 39,857.40
Disbursements, Maintenance Patients' Fund	47,565.90
Total	$ 87,423.30
Less refund, board and treatment	1,352.05
Amount actually expended	$ 86,071.25
Hospital days	42,575
Average cost each patient per day	$2.02

N. C. SANATORIUM FOR THE TREATMENT OF TUBERCULOSIS, SANATORIUM, NORTH CAROLINA

COMPARATIVE BALANCE SHEET

ASSETS

	Dec. 1, 1917	*Dec. 1, 1918*
Real estate and hospital buildings	$109,927.43	$ 98,347.58
Real estate, farms	11,763.34	12,005.64
Barns and silos	2,267.54	9,445.76
Telephone system	1,152.42	2,499.74
Power, heat, light, water, refg., and plbg	29,464.49	30,785.25
Sewer system and disposal plant	4,903.88	4,932.88
Inventories:		
Furniture and fixtures:		
Dining hall and kitchen	3,647.80	3,148.05
Hospital	3,522.05	6,049.80
Nurses' Home	444.75	1,500.00
Superintendent's residence	1,448.75	1,500.00
Business office	502.75	764.00
Extension office	2,444.75	2,257.50
Stenographers' building	369.65	369.65
Dairy	286.00	481.01
Linen and bedding	6,024.00	6,246.50
Laboratory and medical office	703.08	4,370.55
Crockery and silver	760.91	471.00
Farm machinery and tools	1,448.80	1,686.75
Auto and dray (dray only 1918)	775.00	235.75
Library (books donated)	125.00	135.00
Stereopticon outfit	118.20	131.00
Laundry plant		50.00
Supplies:		
Hospital	3,125.17	14,543.20
Farm, feed, etc.	520.00	767.75
Dairy, feed, etc.	1,402.00	1,925.00
Provisions	2,204.15	2,452.70

Business office (supplies, etc.)	$ 324.16	$ 223.10
Extension (supplies, etc.)	239.75	250.00
Books (Training School)	93.50	90.00
Drugs and medicine	133.55	373.50
Live-stock:		
Dairy animals	5,765.00	5,910.00
Farm	1,600.00	1,600.00
Hogs	1,728.00	2,707.50
Miscellaneous:		
Cash on hand	2,445.84	2,728.06
Bank of Hoke		.10
	$201,681.71	$220,984.32
Increase in assets		19,302.61

LIABILITIES

		Dec. 1, 1917	*Dec. 1, 1918*
Page Trust Co., overdraft		$ 2.60	$ 1,646.04
Surplus	$219,338.28	201,642.50	
Less accts. payable	15,325.26		
			204,013.02
Accounts payable			15,325.26
		$236,309.58	$236,309.58

CASH REPORT OF THE NORTH CAROLINA SANATORIUM, YEAR ENDING NOVEMBER 30, 1918

State appropriations:			
Balance December 1, 1917		$ 7.40	
Brooks Hall, insurance		8,333.29	
Permanent improvement	$ 25,000.00		
Additional allowance, 1919 appro	3,550.00		
	$ 28,550.00		
Received of above to Nov. 30, 1918		15,000.00	
Maintenance		40,000.00	
Extension		10,000.00	$ 73,340.69
Patients' Fund:			
Board and treatment		$ 42,843.75	
Auto		302.34	
Laundry		906.71	
Hospital supplies		1,595.88	
Telephone and telegraph		65.56	
Postoffice (rent)		90.00	
Provisions		1,193.13	
Farm		18.10	
Dairy		155.95	
X-ray		75.00	
Power		336.85	

Red Cross donations		$ 269.05	
Examinations		5.00	
Drugs and medicine		2.00	
Real estate, turpentine wood		25.50	
		$ 47,884.82	
Cash on hand Dec. 1, 1917		2,445.84	
		$ 50,330.66	
Less:			
Cash on hand Dec. 1, 1918	$ 2,728.06		
Bank of Hoke, bal. Dec. 1, 1918	.10		
Bank of Hoke, O. D., Dec. 1, 1917	36.60	2,764.76	
		$ 47,565.90	
Page Tr. Co., O. D., Dec. 1, 1918		1,646.04	$ 49,211.94
Expenditures as per disbursement sheet			$122,552.63

NAME OF ORGANIZATIONS THAT HAVE SUPPORTED PATIENTS DURING THE YEAR, NUMBER OF PATIENTS SO SUPPORTED, AND AMOUNT PAID

Name of Club or Organization	*Number Patients Supported*	*Amount Paid*
King's Daughters, Chapel Hill, N. C.	1	$ 180.00
Catholic Church, Rocky Mount, N. C.	1	273.00
Presbyterian Church, St. Pauls, N. C.	1	148.00
Associated Charities, Statesville, N. C.	1	137.00
Proximity Mfg. Co., Greensboro, N. C.	2	488.00
Tolar-Hart Mills, Fayetteville, N. C.	1	60.00
Buncombe County, Asheville, N. C.	1	241.00
Thomasville Orphanage, Thomasville, N. C.	1	181.00
Hoke County, N. C., Raeford, N. C.	1	263.00
Methodist Orphanage, Raleigh, N. C.	1	212.00
Associated Charities, Goldsboro, N. C.	1	153.00
Red Cross Seal Committee, Wilson, N. C.	1	183.00
Thompson Orphanage, Charlotte, N. C.	3	364.00
Women's Club, Greensboro, N. C.	1	213.00
Revolution Cotton Mills, Greensboro, N. C.	1	260.00
Total	18	$3,356.00

LOSS BY FIRE, SANATORIUM, N. C., DECEMBER 16, 1917, 3 A. M.

Brooks Hall building		$ 20,000.00

LOST—FURNISHINGS, ETC.

9	pillows, at $1.50	$ 13.50	
26	pillow-cases, at 15 cents	3.90	
40	sheets, at $1	40.00	
15	single blankets, at $3	45.00	
9	double blankets, at $6	54.00	
14	face towels, at 15 cents	2.10	
20	bath towels, at 15 cents	3.00	
15	pigs, at 50 cents	7.50	
80	common chairs, at 60 cents	48.00	
18	recliners, at $1.50	27.00	
10	small tables, at $3	30.00	
26	mattresses, at $8	208.00	
38	beds and springs, at $10	380.00	
3	barrels sourkraut, at $30	90.00	
117	dozen 10-pound cans fruits and vegetables, at $8	936.00	
1	Lundell dynamo	100.00	
750	empty new 10-pound cans, at $1.10	82.50	
60	pounds permanganate potash, at $1.25	75.00	
	Shafting, pulley boxes, etc.	50.00	
	Ban marie	75.00	
22	dressers, at $15	330.00	
	Hotel range	125.00	2,725.50
	Total loss		$ 22,725.50

SALVAGE

43	pillows, at $1.50	$ 64.50	
35	pillow-cases, at 15 cents	5.25	
42	sheets, at $1	42.00	
42	single blankets, at $3	126.00	
73	double blankets, at $6	438.00	
4	canvasses		
1	quilt		
1	mat		
10	face towels at 15 cents	1.50	
7	bath towels, at 15 cents	1.05	
5	pigs, at 50 cents	2.50	
8	common chairs, at 60 cents	4.80	
3	bent wood chairs		
16	recliners, at $1.50	24.00	
2	small tables, at $3	6.00	
15	mattresses, at $8	120.00	
3	beds and springs, at $10	30.00	
25	dozen 10-pound cans fruits and vegetables, at $8	200.00	
	Insurance collected	8,333.33	
	Total salvage		9,398.93
	Net loss		$ 13,327.67

NOVEMBER 11, 1918

At a meeting of the State Board of Health in the city of Raleigh, on the day and date above written, it was unanimously agreed that the following memorial be presented to the next General Assembly:

Whereas, we recognize the prevalence of tuberculosis among the negroes of our State and the high death rate from same, and the freedom with which the negroes transmit the disease both to their own people and to the white; and

Whereas the work of our State Sanatorium has long since passed the experimental stage, and has become one of the important institutions of our State: Therefore, be it

Resolved, That we consider ourselves and the State under the same obligation to the negro as to the white, and that we recommend for your earnest consideration the establishment of a sanatorium for negroes, under the same general plan as our present State Sanatorium; the patient or his family or friends, or the city or county or other agencies, one or all combined, to provide one dollar per day per patient toward the maintenance, and the State provide the grounds, buildings, and equipment, and pay the remainder, all of which is respectfully submitted.

Adopted. J. HOWELL WAY, M.D.,
President.

Attest:
W. S. RANKIN, M.D., *Secretary.*

SIXTH ANNUAL REPORT

OF THE

North Carolina Sanatorium for the Treatment of Tuberculosis

UNDER CONTROL OF STATE BOARD OF HEALTH

SANATORIUM, N. C.

1919

RALEIGH
EDWARDS & BROUGHTON PRINTING CO.
STATE PRINTERS
1920

NORTH CAROLINA SANATORIUM

FOR THE TREATMENT OF TUBERCULOSIS

(Under the control of the State Board of Health)

PERSONNEL

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Superintendent	L. B. McBrayer, M.D.
Assistant Superintendent	P. P. McCain, M.D.
Assistant Physician and Director of Laboratories	R. McBrayer, M.D.
Assistant Physician	J. L. Spruill, M.D.
Private Secretary to Superintendent	A. W. Snow
Head Nurse	Miss Mamie O'Kelly
Head Nurse, Assistant	Miss E. Connolly
Cashier	Chas. McCain

EXTENSION DEPARTMENT OF THE NORTH CAROLINA SANATORIUM FOR THE TREATMENT OF TUBERCULOSIS

Bureau of Tuberculosis, State Board of Health

Chief of Bureau	L. B. McBrayer, M.D.
Assistant Chief of Bureau	P. P. McCain, M.D.
Office Secretary	A. W. Snow
Stenographer	Miss L. Thorpe
Stenographer	Miss L. Lindly
State Director of Public Health Nursing	Miss Rose M. Ehrenfeld
Director Organization and Education Among the Negroes	Florence C. Williams

STATE RED CROSS SEAL COMMISSION

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DR. L. B. MCBRAYER, Executive Secretary and Treasurer

A. W. SNOW, Assistant Secretary

LETTER OF TRANSMITTAL

Dr. W. S. Rankin, *Secretary,*
State Board of Health,
Raleigh, N. C.

My Dear Doctor:—I hereby transmit to you, and through you to the State Board of Health and the Governor and General Assembly, a report, being the 6th annual report of the North Carolina Sanatorium for the Treatment of Tuberculosis for the year 1919.

Very respectfully yours,

L. B. McBrayer,
Superintendent.

SIXTH ANNUAL REPORT

OF

THE NORTH CAROLINA SANATORIUM FOR THE TREATMENT OF TUBERCULOSIS

UNDER CONTROL OF

THE STATE BOARD OF HEALTH

SANATORIUM, N. C.

SUMMARY OF YEAR'S WORK

OF THE NORTH CAROLINA SANATORIUM (INCLUDING THE EXTENSION DEPARTMENT), 1919

Letters and postals received		20,462
Letters written:		
Individual	16,642	
Multigraph	47,162	
Total		63,804
Articles written (approximate number words):		
Newspaper	45,400	
Bulletin	17,500	
Official pamphlets	20,300	
Other publications	31,900	
Articles copied	48,200	
Total		163,300
Forms and placards prepared		451
Total number copies of forms and placards		95,339
Blank cards mailed for reporting cases of tuberculosis		4,338
Number cases reported:		
White	1,294	
Black	1,012	
Total		2,306
Literature:		
Pieces sent to reported cases	15,587	
Other literature sent out	124,459	
Total		140,046

Mailing cases distributed	64
Sputum cups distributed	120,050
Tuberculin sent physicians for von Pirquet diagnostic test	300
Blanks for reporting results of von Pirquet diagnostic test	300
Patients' histories written (359); approximate number words	179,000
Envelopes addressed	73,509

Dr. L. B. McBrayer:

Addresses delivered	33
Total audiences	4,625
Conferences with local authorities	169
Days out of office	91

Dr. P. P. McCain:

Consultations with county health officers	1
Patients examined at Wilson	14
Number weeks spent in special study, (x-ray and pathology of the chest)	3
State prisoners examined for tuberculosis, Dr. R. A. McBrayer assisting	6

Dr. R. A. McBrayer:

Addresses delivered	3
Total audiences	900
Conferences held	18
Consultations	2
Clinics visited	1
Sanatoria visited	1

Dr. J. L. Spruill:

County clinics held	2
Patients examined	182
Addresses	14
Total audiences	2,975
Conferences	10

Number of outside patients examined	909

SUMMARY OF WORK AMONG THE NEGROES

Number of leagues organized	465
Members	16,467
Meetings reported as held	230
Total attendance	6,360
Total number addressed by supervisors on health topics	84,225
Total number present at meetings Home Makers Clubs	6,170
Total number reached by Mrs. Williams and Mrs. Holland in addresses on health and sanitation	29,227
Total audience present at lectures	131,022
Total number conferences	197

Exhibits:

State fair;
Southern Conference on Tuberculosis;
Sandhill fair;

12 1st prizes;
5 2nd prizes;
1 prize for best exhibit.

Number patients December 1, 1918	113
Number patients admitted	311
Number patients discharged	299
Number patients December 1, 1919	125
Number hospital days	43,446
State appropriation, maintenance	50,000
Cost per patient per day to State	$1.15

Appropriations, 1918:

Maintenance	40,000.00
Extension	10,000.00
Total	$50,000.00

Lives saved as against previous year, 91 at $4,000	$ 396,000.00
Cases saved as against previous year, 728 at $2,400	1,747,200.00
Total	$ 2,143,200.00
	50,000.00
Net profit for 1918	$ 2,093,200.00

Appropriations, 1919:

Maintenance	$50,000.00
Extension	14,000.00
Total	$64,000.00

Lives saved as against previous year (estimate on statistical report), 500 at $4,000	$2,000,000.00
Cases saved as against previous year, 4,000 at $2,400	9,600,000.00
	$11,600,000.00
	64,000.00
Net profit for 1919	$11,536,000.00

EXPLANATIONS

(The value of life fixed at $4,000 is taken from the economy tables of Prof. Irving Fisher, recognized as standard in the United States.)

The loss attributed to case fixed at $2,400 is an approximation. Prof. Fisher places cost of average case of typhoid fever at $400, including those who recover

and those who die. The period of total disability is not above three months in such cases. The period of disability in tuberculosis is certainly six times as long as in typhoid, or one and one-half years. The economic cost of each case has therefore been approximated as six times that of the typhoid case.

The Framingham demonstration has shown a ratio of eight cases to each death. In arriving at the reduction in number of cases it has been assumed that the reduction is in the same ratio as the prevalence; that, in other words, for each reduction in number of deaths there is a corresponding reduction of eight in the number of cases.

The economic value of $4,000 placed upon a life is figured at the height of production age, 30–35. This value was arrived at several years ago. At present standard of values this figure probably should be put at $8,000, with a corresponding increase in the cost of each case of illness.

The cost of funeral expenses is included in the item of cost per case.

The item of future infections prevented would, it seems, be included in the item of reduction of cases.

(R. B. W.)

Report of Rose M. Ehrenfeld
for year
December, 1918–December, 1919

Correspondence:
- Received 920
- Sent 1,502

Days in the office 48.5

Time spent at conferences, etc.:
- Southern Tuberculosis Association, Birmingham, days 3
- State Social Service Conference, days 5
- Institute Red Cross Divisional Directors and State Nurses, Washington, days 5
- State and County Council, days 3
- Southern Tuberculosis Conference, Asheville, days 2
- State Nurses' Association, days 1.5
- National Tuberculosis Conference, Atlantic City, days 2

Total days 17

Time spent for County Tuberculosis Clinic:
- In interest of clinic, days 2.5
- On duty at clinic, Randolph County, days 8

Total days 10.5

(120 examinations, 25 additional appointments.)

Counties visited relative to county development:

Moore	Orange	Hertford
Montgomery	Caldwell	Granville
Iredell	Burke	Edgecombe
Yancey	Macon	Cumberland
Scotland	Cherokee	

County Nursing Service committees organized:

Randolph	Iredell
Burke	Catawba
Yancey	

Survey of Nursing Work:

Spray	Winston-Salem	Fayetteville
High Point	Charlotte	White Rock
Wilson	Raleigh	Rocky Mount
Statesville	Durham	Oxford
Asheville	Goldsboro	Ashboro
Greensboro	New Bern	Greenville
Rockingham	Wilmington	Tarboro

Reorganization of town nursing service effected twice, releasing work from charity organization control and placing under direction of a mixed advisory board.

Nurses placed for Public Health Work:

Counties		Towns	
Granville	1	Raleigh	2
Wilson	1	New Bern	1
Catawba	1	Statesville	1
Swain	1	Goldsboro	1
Randolph	1	Charlotte (City Supervisor)	1
Pitt	1	Winston-Salem (City Supervisor)	1
(New Hanover)			
(Cumberland)			

Scholarships secured for course in Public Health Nursing:

Metropolitan scholarship	1
Red Cross scholarship	4
Total	5

Nurses at present taking post graduate courses on scholarships:

At Richmond (S. S. W. and P. H.)	3
At Cleveland (W. R. University)	1
Total	4

Financial support secured:

Salary secured for nurse for Chapel Hill.
Salary and transportation for nurse in Randolph County.
Salary and transportation for nurse in Iredell County.
Salary and transportation for nurse in Burke County.
Salary secured for nurse in Yancey County.
Increase in salary for nurse, once.
Money for car, once.
Money to continue nursing work, once.

Nurses visited in their field:

Five doing county work, and
All others doing town work, and
Most at industrial centers and
Working under church boards.

Time spent in the district with, or in starting new nurses, days	39
Supervisory visits to nurses in the field	36
Grips furnished visiting nurses (Swain County, Raleigh, Wilson)	3
Supervisory visits in homes with district nurses	86
Other patients visited (reported tuberculous or suspects)	10
Total	96

Papers read:

Southern Tubercuolsis Conference, Asheville.....1
State Nurses' Association.....1
Conference of N. O. P. H. N., A. R. C., U. S. P. H. S., and Met., in Cincinnati.....1
State Mediacl Society.....1

Total.....4

Articles released for publication:

University News Letter;
State Health Bulletin;
To the National Tuberculosis Association;
Leaflets and newspaper articles;
Total.....11

Talks made:

Metropolitan agency staff and nurses;
Southern Tuberculosis Conference;
Groups of school children (white and black);
High schools;
State College for Women;
Biddle University (colored);
Teachers' Meetings;
County Teachers' Institutes;
and Meetings of—
Aldermen,
Community Leagues,
Woman's Clubs,
Betterment Associations,
Civic Leagues,
County Commissioners,
City Nursing Staffs,
County Farmers' Institutes,
State Farm Women Institute,
Red Cross Chapters,
Executive Boards,
Home Service Committees,
Round Tables on Public
Health Nursing, and to
County Health Officers taking
course at Sanatorium, and
other public meetings.
Total.....58

Demonstrations given:

Public demonstrations for infant feeding..... 2
Classes and demonstrations for county home demonstration agents..... 7
To groups of mothers at schools..... 4

Total.....13

Formal conferences held:

With Red Cross Home Service Committees;
With ex-Sanatorium patients;
With chapters regarding county development;
With different organizations regarding re-organization of work, etc.

Total.....49

Personal interviews and other conferences with health officers, physicians, nurses, etc.....270

Other service rendered:

Assisted 2 industrial nurses (request of cotton mills) in starting work, planning records, etc.
Served on tuberculosis committee of N. O. P. H. N.
Served as State representative for N. O. P. H. N.
Served as chairman, Public Health Section, State Nurses' Association.
Ran course of instruction for all County H. D. A.
Secured co-operation of State University, through Extension Department of which literature of N. O. P. H. N. will be distributed.
Circularized nurses in the State announcing literature available.
Circularized nurses with leaflet of N. O. P. H. N. regarding special courses.
Outlined health program for woman's club.
Got two nursing associations to adopt standard records.
Held round table at State Social Service Conference.
In addition, visited 22 town or county health departments, 22 schools, and referred credentials to 50 sources of inquiry for nurses and referred 30 nurses for positions open.

Metropolitan offices visited.....17

Statesville	Goldsboro	Greensboro	High Point
Charlotte	Kannapolis	Raleigh	Wilmington
Salisbury	Winston-Salem	Wilson	Rockingham
Fayetteville	New Bern	Durham	Asheville
			Oxford

Visits to Metropolitan offices.....36
Conferences with superintendents, deputy superintendents, agency staffs and nurses.....24
Talks and open discussions on such occasions.....13
Metropolitan field supervisors' card or letter reports sent to nursing service....20
Metropolitan literature used in connection with class and demonstration work.
Metropolitan patients visited in districts with nurses.....34

ROSE M. EHRENFELD, R.N.

State Director Public Health Nursing.

LITERATURE OF THE BUREAU OF TUBERCULOSIS OF THE NORTH CAROLINA STATE BOARD OF HEALTH

TITLE OF BULLETIN

Bulletin No. 41—Tuberculosis: The Great White Plague.

Bulletin No. 36—Tuberculosis: Its Nature and Prevention.

Bulletin No. 39—Important Facts About Tuberculosis and Your Chances Against It.

Bulletin No. 56—Tuberculosis: Its Cure and Prevention.

Bulletin No. 61—How to Care for a Tuberculous Patient.

Bulletin No. 70—TUBERCULOSIS: (A. M. A. Bulletin).

Bulletin No. 92—An Act to Prevent the Convicts or Prisoners of North Carolina from Contracting Tuberculosis.

Bulletin No. 117—Tuberculosis: Its Symptoms, Prevention and Cure.

Bulletin No. 129—County Tuberculosis Problem.

Bulletin No. 157—The Problem of the Returned Tuberculous Soldier.

Bulletin No. 1000—If There Is To Be Democratic Equality of Opportunity There Must Be an Equal Opportunity for Health.

Bulletin No. 1001—Murder! (Perfectly Legal.)

Bulletin No. 1002—Carry On.

Bulletin No. 1003—Fundamental Principles of Public Health Nursing.

The Next to Go.

The Story of Four Generations.

Is Your Muffler Working or Your Cut-out Open?

They Are Dead.

Camouflage.

U-Boat.

Why Tuberculous Person Without Funds Should Not Leave Home.

Pessimists Fall Out!

After the "Flu" What?—"Watch Your Step."

The Incidence and the Importance of Pleurisy in Early Tuberculosis, by Dr. P. P. McCain, Sanatorium, N. C.

A Plea for an Earlier Diagnosis of Pulmonary Tuberculosis by the General Practitioner, by Dr. J. H. Way, Waynesville, N. C.

The Diagnosis of Early Pulmonary Tuberculosis for the General Practitioner, by Dr. S. E. Thompson, Carlsbad, Texas.

A Modern Prophecy, by Dr. Benj. K. Hays, Oxford, N. C.

The Infectiousness of Tuberculosis, by. Dr. T. D. Coleman, Augusta, Ga.

Importance of the Whole-time Health Officer and the Whole-time Health Nurse in the Campaign Against Tuberculosis and all Preventable Diseases, by Dr. L. B. McBrayer, Sanatorium, N. C.

MEDICAL REPORT, 1919

Statistical

Number patients to be reported on	268
Number patients not tuberculous	14
Number patients not classified	6
Number patients in Sanatorium December 1, 1919	125
Total number patients treated during year	413

32 PATIENTS WHO STAYED LESS THAN 30 DAYS

Condition on Admission	Condition on Discharge					
	Arrested	Apparently Arrested	Quiescent	Improved	Unimproved	Died
Incipient 12	0	0	0	12	0	0
Moderately advanced 13	0	0	0	13	0	0
Far advanced 7	0	0	0	1	4	2
Acute tuberculosis 0	0	0	0	0	0	0
Totals 32	0	0	0	26	4	2

Average stay, 17.7 days — Longest stay, 29 days — Shortest stay, 2 days

Number Gained Weight, 20		Number Lost Weight, 4	
Average gain	3. Lbs.	Average loss	2. Lbs.
Largest gain	12. Lbs.	Largest loss	3.5 Lbs.
Smallest gain	.5 Lbs.	Smallest loss	.5 Lb.
Stationary	2	Not weighed	6

39 PATIENTS WHO STAYED FROM 30 TO 89 DAYS

Condition on Admission	Condition on Discharge					
	Arrested	Apparently Arrested	Quiescent	Improved	Unimproved	Died
Incipient 10	0	0	4	6	0	0
Moderately advanced 13	0	0	4	8	0	1
Far advanced 16	0	0	0	4	10	2
Acute tuberculosis 0	0	0	0	0	0	0
Totals 39	0	0	8	18	10	3

Average stay, 59.3 days — Longest stay, 87 days — Shortest stay, 30 days

Number Gained Weight, 24		Number Lost Weight, 15	
Average gain	8.8 Lbs.	Average loss	5.7 Lbs.
Largest gain	26. Lbs.	Largest loss	16.5 Lbs.
Smallest gain	1. Lb.	Smallest loss	.5 Lb.
Stationary	0	Not weighed	0

197 PATIENTS WHO STAYED 90 DAYS OR MORE

Condition on Admission	Condition on Discharge					
	Arrested	Apparently Arrested	Quiescent	Improved	Unimproved	Died
Incipient 62	8	33	14	6	1	0
Moderately advanced 81	0	6	53	15	6	1
Far advanced 54	0	1	15	15	20	3
Acute tuberculosis 0	0	0	0	0	0	0
Totals 197	8	40	82	36	27	4

Average stay, 199.4 days — Longest stay, 553 days — Shortest stay, 91 days

Number Gained Weight, 158		Number Lost Weight, 39	
Average gain	12.1 Lbs.	Average loss	8.1 Lbs.
Largest gain	59.75 Lbs.	Largest loss	26.5 Lbs.
Smallest gain	.5 Lb.	Smallest loss	.5 Lb.
Stationary	11	Not weighed	3

HISTORY OF HEMORRHAGE

Negative		148
Positive	Previous only	102
	Previous and during residence	10
	During residence only	8
Total		268

RESULTS OF SPUTUM EXAMINATIONS

Negative or no sputum		154
Positive	On admission	117
	During residence	103
	On discharge	96
Total		470

23 PATIENTS WHO TOOK THE TUBERCULIN TEST

Positive	9
Negative	14
Total	23

Sex	Age						Civil Condition		
	-19	20-29	30-39	40-49	50-59	60+	Single	Married	Widowed
Male 118	15	71	17	13	1	1	72	47	1
Female 150	23	61	39	18	7	2	67	67	14
Totals 268	38	132	56	31	8	3	139	114	15

NATIONALITY

Americans	268

COMPLICATIONS

Acute nephritis	1	Hookworm	1	Otitis media	4
Anal fistula	11	Hyperthyroidism	3	Parenchymatous nephritis	2
Arterio sclerosis	1	Hypertrophic cirrhosis of liver	1	Peritonitis	2
Arthritis deformans	2	Influenza	8	Pharyngitis	2
Asthma	1	Iritis	2	Pleurisy with effusion	1
Bronchiectasis	2	Laryngitis	23	Pregnancy	3
Bronchitis	11	Lung abscess	1	Pyopneumothorax	1
Broncho-pneumonia	3	Measles	1	Salpingitis	1
Chicken-pox	3	Meningitis	1	Septic arthritis	1
Empyema	1	Miscarriage	1	Torticollis	1
Endometritis	1	Mitral regurgitation	3	Tricuspid regurgitation	1
Enteritis	11	Mumps	1		

OCCUPATIONS

Auto mechanic	1	Movie operator	1
Barbers	4	Nurses	3
Bookkeepers	3	Painter	1
Cabinet-maker	1	Printers	2
Chauffeur	1	Radiologist	1
Cigar-makers	2	Railroad clerks	3
Clerks in stores	13	Railroad conductor	1
Contractor and builder	1	Sailor	1
Cotton mill employees	11	Salesladies	4
Dressmaker	1	Saw-milling	1
Druggist	1	Secretary Chamber of Commerce	1
Electrician	1	Silk mill operator	1
Engineers	2	Soldiers	26
Express agent	1	Stenographers	6
Farmers	32	Students	19
General manager merchandise store	1	Teachers	9
Housekeepers	18	Telephone superintendent	1
Housewives	78	Ticket agent	1
Letter carrier	1	Tinner	1
Locomotive engineer	1	Tobacconist	1
Merchants	2	Traveling salesmen	2
Milliner	1	No occupation	5

TOWNS FROM WHICH THE PATIENTS CAME

Aberdeen	2
Albemarle	2
Alexander	2
Allenton	1
Aulander	1
Ayden	1
Badin	1
Bailey	2
Barber	1
Bardstown	1
Belhaven	1
Bessemer City	1
Boonville	1
Bridgeton	1
Brown Summit	1
Brummett	1
Buies Creek	1
Burlington	3
Caroleen	1
Casar	1
Cedar Creek	2
Charlotte	8
Clarkton	1
Clayton	3
Cliffside	1
Columbia	1
Concord	3
Crossnore	1
Crouse	1
Crumpler	1
Culberson	1
Dallas	1
Davidson	3
Denim Branch	1
Dunn	4
Durham	7
East Durham	1
Elizabeth City	3
Elkin	1
Ellenboro	1
Enfield	1
Farmville	1
Fayetteville	8
Ferguson	1
Franklin	1
Garland	1
Gastonia	3
George	1
Gibson	1
Goldsboro	5
Gorham	1
Graham	1
Granite Quarry	1
Grantsboro	1
Greensboro	9
Greenville	1
Hamptonville	1
Hatteras	1
Henderson	5
Hester	1
Hiddenite	1
High Point	4
Hill's Store	1
Huntersville	1
Jackson's Creek	1
Jamestown	1
Jamesville	1
Jennings	2
Kinston	3
Laurinburg	3
Lawndale	4
Lemon Springs	1
Lenoir	3
Lexington	3
Lillington	1
Lincolnton	1
Littleton	2
Louisburg	1
Lumberton	2
McAdenville	1
Macclesfield	1
Magnolia	1
Marion	1
Maxton	1
Mebane	3
Midland	1
Milton	1
Minton	1
Monroe	4
Mooresville	1
Morehead City	3
Morganton	1
Morven	1
Mount Airy	4
Mount Olive	2
Murfreesboro	1
Murphy	2
New Bern	1
New Hill	1
Newport	1
Newton Grove	1
Norlina	1
Norwood	3
Oriental	1
Oxford	2
Peachland	1
Pilot Mountain	2
Pinelevel	1
Pisgah	2
Polkton	1
Powellsville	1
Raleigh	7
Reidsville	2
Roanoke Rapids	2
Rockingham	3
Rocky Mount	4
Rosehill	1
Rowland	3
Roxobel	1
Rusk	1
St. Just	1
St. Paul's	1
Salisbury	1
Saluda	1
Sanford	3
Seagrove	1
Selma	1
Seven Springs	1
Shallotte	1
Shelby	1
Siloam	2
Spencer	1
Spring Hope	1
Stantonsburg	1
Stedman	2
Stem	1
Stoneville	1
Sunburst	1
Tarboro	1
Wade	1
Wadesboro	1
Wadeville	1
Wake Forest	1
Washington	1
Waxhaw	1
West Durham	2
Williamston	1
Wilson	1
Windsor	1
Winston-Salem	7
Winterville	1
Yadkinville	1

COUNTIES FROM WHICH THE PATIENTS CAME

Alamance	7	Forsyth	7	Pasquotank	3
Alexander	1	Franklin	1	Pitt	4
Anson	4	Gaston	6	Polk	1
Ashe	1	Granville	4	Randolph	5
Avery	1	Guilford	16	Richmond	3
Beaufort	2	Halifax	5	Robeson	8
Bertie	4	Harnett	6	Rockingham	3
Bladen	1	Haywood	1	Rowan	4
Brunswick	1	Hertford	1	Rutherford	3
Buncombe	2	Iredell	3	Sampson	2
Burke	1	Johnston	5	Scotland	4
Cabarrus	4	Lee	4	Stanly	6
Caldwell	3	Lenoir	3	Surry	10
Carteret	4	Lincoln	2	Tyrrell	1
Caswell	1	Macon	1	Union	5
Cherokee	3	Martin	2	Vance	5
Cleveland	6	McDowell	1	Wake	9
Craven	2	Mecklenburg	12	Warren	1
Cumberland	13	Mitchell	1	Wayne	8
Dare	1	Montgomery	2	Wilkes	2
Davidson	3	Moore	2	Wilson	2
Duplin	2	Nash	3	Yadkin	3
Durham	9	Northampton	1	Unknown	3
Edgecombe	6	Pamlico	2		

OUTSIDE PATIENTS EXAMINED FOR DIAGNOSIS AND CONSULTATION

December	18	April	66	August	60
January	43	May	80	September	192
February	40	June	67	October	87
March	70	July	42	November	144
Total					909

SUMMARY MEDICAL REPORT DECEMBER 1, 1918, TO NOVEMBER 30, 1919

Patients admitted:	
Incipient	100
Moderately advanced	117
Far advanced	72
Not classified	4
For test	9
Not tuberculous	5
Total	307
Patients discharged:	
Arrested	8
Apparently arrested	40
Quiescent	90
Improved	80
Unimproved	41
Died	9
Not tuberculous	14
Not classified	6
Total	288
Hospital days	43,446

LABORATORY REPORT

Sputa: (Miks.)	1,417
(Chem.)	245
Urinalysis: (Miks.)	476
(Chem.)	1,488
Blood counts:	
W. B. C. Dif. counts	40
W. B. C. counts	30
R. B. C. counts	30
Hemoglobin	30
Pleural fluid	6
Feces	19
Gastric	1
Total	3,782

PRESENT CONDITION OF ALL INCIPIENT PATIENTS DISCHARGED FROM THE SANATORIUM PREVIOUS TO JUNE 30, 1919

Condition on Discharge	Condition June 30, 1919	Years Discharged						
		1914	1915	1916	1917	1918	1919	Total
Arrested 34	Living and working	0	5	6	13	3	1	28
	Living and not working	0	0	1	2	0	1	4
	Dead	0	0	0	0	0	0	0
	Lost	0	0	1	0	1	0	2
Apparently Arrested 122	Living and working	1	7	27	32	24	7	98
	Living and not working	1	1	1	7	6	5	21
	Dead	0	1	0	0	0	0	1
	Lost	0	1	0	0	1	0	2
Quiescent 65	Living and working	5	3	12	9	12	5	46
	Living and not working	0	1	0	2	3	5	11
	Dead	0	6	0	0	0	0	6
	Lost	0	1	0	1	0	0	2
Improved 58	Living and working	0	4	11	13	8	5	41
	Living and not working	1	0	2	2	2	3	10
	Dead	0	1	0	1	2	0	4
	Lost	0	0	2	1	0	0	3
Unimproved 4	Living and working	0	0	1	1	0	1	3
	Living and not working	0	0	0	0	0	0	0
	Dead	0	0	0	1	0	0	1
	Lost	0	0	0	0	0	0	0
Total 283	Living and working	6	19	57	68	47	19	216
	Living and not working	2	2	4	13	11	14	46
	Dead	0	8	0	2	2	0	12
	Lost	0	2	3	2	2	0	9

PRESENT CONDITION OF ALL MODERATELY ADVANCED PATIENTS DISCHARGED FROM THE SANATORIUM PREVIOUS TO JUNE 30, 1919

Condition on Discharge	Condition June 30, 1919	Years Discharged						
		1914	1915	1916	1917	1918	1919	Total
Arrested 13	Living and working	0	4	5	1	1	0	11
	Living and not working	0	0	2	0	0	0	2
	Dead	0	0	0	0	0	0	0
	Lost	0	0	0	0	0	0	0
Apparently Arrested 42	Living and working	2	1	6	4	10	3	26
	Living and not working	1	1	3	3	5	2	15
	Dead	0	1	0	0	0	0	1
	Lost	0	0	0	0	0	0	0
Quiescent 271	Living and working	6	16	28	38	27	18	133
	Living and not working	1	2	7	13	13	21	57
	Dead	11	15	30	13	6	0	75
	Lost	1	2	0	1	0	2	6
Improved 175	Living and working	6	6	11	16	12	3	54
	Living and not working	1	2	5	11	10	10	39
	Dead	19	16	16	17	11	0	79
	Lost	0	1	0	1	0	1	3
Unimproved 36	Living and working	0	0	2	1	0	0	3
	Living and not working	0	0	0	0	4	5	9
	Dead	2	5	5	4	6	2	24
	Lost	0	0	0	0	0	0	0
Total 537	Living and working	14	27	52	60	50	24	227
	Living and not working	3	5	17	27	32	38	122
	Dead	32	37	51	34	23	2	179
	Lost	1	3	0	2	0	3	9

PRESENT CONDITION OF ALL FAR ADVANCED PATIENTS DISCHARGED FROM THE SANATORIUM PREVIOUS TO JUNE 30, 1919

Condition on Discharge	Condition June 30, 1919	Years Discharged						
		1914	1915	1916	1917	1918	1919	Total
Arrested 0	Living and working	0	0	0	0	0	0	0
	Living and not working	0	0	0	0	0	0	0
	Dead	0	0	0	0	0	0	0
	Lost	0	0	0	0	0	0	0
Apparently Arrested 1	Living and working	0	0	0	0	0	1	1
	Living and not working	0	0	0	0	0	0	0
	Dead	0	0	0	0	0	0	0
	Lost	0	0	0	0	0	0	0
Quiescent 79	Living and working	1	4	4	12	6	3	30
	Living and not working	0	3	0	2	9	5	19
	Dead	2	9	9	0	3	0	23
	Lost	0	0	0	6	1	0	7
Improved 143	Living and working	0	2	4	5	7	1	19
	Living and not working	1	1	3	1	9	14	29
	Dead	20	22	16	28	6	2	94
	Lost	0	0	0	0	0	1	1
Unimproved 114	Living and working	0	0	2	0	0	0	2
	Living and not working	0	1	1	1	4	4	11
	Dead	19	11	14	16	27	14	101
	Lost	0	0	0	0	0	0	0
Total 337	Living and working	1	6	10	17	13	5	52
	Living and not working	1	5	4	4	22	23	59
	Dead	41	42	39	44	36	16	218
	Lost	0	0	0	6	1	1	8

FINANCIAL STATEMENT

TRIAL BALANCE NORTH CAROLINA SANATORIUM, DECEMBER 1, 1919

Surplus		$283,314.90
Bank of Hoke, overdraft		2,244.41
Page Trust Co., overdraft		20,175.64
Reserve for depreciation		19,286.38
Real estate and hospital grounds	$ 20,000.00	
Administration building	6,100.00	
Nurses' Home	10,200.00	
Superintendent's residence	7,150.00	
Assembly hall, dining hall and kitchen	8,500.00	
Infirmary	62,768.68	
Open Air Cottage	3,500.00	
Two-story open air cottage	6,500.00	
Stenographer's home	1,750.00	
Physicians' residence	3,500.00	
Farm supplies	892.27	
Farm land	8,500.00	
Farm machinery and tools	2,051.78	
Farm live stock	2,206.68	
Farm residences	3,505.64	
Dairy fixtures	529.80	
Dairy barns, silos, and bottling plant	23,517.19	
Dairy live stock	11,250.86	
Hogs	3,291.32	
Furniture and fixtures (hospital)	6,554.87	
Furniture and fixtures (dining room and kitchen)	3,148.05	
Furniture and fixtures (superintendent's residence)	1,535.74	
Furniture and fixtures (Nurses' Home)	1,500.00	
Furniture and fixtures (cottages)	369.65	
Linen and bedding	8,470.34	
Crockery and silver	1,155.21	
Drugs and medicine	375.90	
Hospital supplies and equipment	13,672.18	
Dairy supplies	2,326.53	
Provisions	3,824.93	
Training school books	137.93	
Power, light, plumbing, refrigeration	51,070.47	
Telephone system	2,525.53	
Stereopticon outfit	131.00	
Library	135.00	
Business office supplies	225.15	
Business office equipment	764.00	
Extension office supplies	255.75	
Extension office equipment	3,465.09	
Laboratory and medical equipment	4,370.55	
Sewage system and disposal plant	11,178.39	

Transportation and drayage	$ 2,315.00	
Accounts receivable	329.44	
State appropriation not deposited	16,604.01	
Cash	2,866.40	
	$325,021.33	$325,021.33

EXPENDITURES NORTH CAROLINA SANATORIUM, YEAR ENDING NOVEMBER 30, 1919

PERMANENT IMPROVEMENT FUND

Buildings: New	$ 31,617.10	
Improved	1,203.93	
Hospital fixtures	4.00	
Transportation and dray	55.46	
Telephones	25.79	
Power	18.58	
Water and sewer	12,100.97	
Laundry	1,006.75	
Dairy barn and silo	12,071.43	
		$ 60,104.01

EXTENSION FUND

Executive: salaries	$ 8,377.17	
Traveling expenses	1,811.38	
Office: Furniture and fixtures	1,207.59	
Books and stationery	1,357.56	
Stamps	1,246.30	
		14,000.00

MAINTENANCE APPROPRIATION

Salaries: Medical	$ 4,165.76
Executive	1,926.37
Nurses and attendants	2,247.00
Cooks and servants	6,076.68
Audit of books	159.56
Supplies: Bedding and linen	1,062.75
Crockery and silver	86.25
Drugs and medicines	155.35
Hospital	8,560.61
Provisions: Meats	5,102.49
Butter	1,643.00
Eggs	351.84
Vegetables and fruits	332.66
Groceries	4,569.80
Miscellaneous	21.56
Equipment: Furniture and fixtures	127.71
Instruments	190.46
Office	38.06
Stationery and books	73.86

Stamps	$ 45.22	
Miscellaneous	18.13	
Power, light, water, refrigeration: Labor	2,851.95	
Supplies	6,251.22	
Farm: Live stock	2.52	
Repairs to buildings	7.61	
Machinery and tools	45.68	
Seeds and fertilizers	268.05	
Feed	1,186.24	
Labor	3,543.47	
Dairy: Live stock	3,557.58	
Fixtures	71.35	
Supplies	99.05	
Feed	504.57	
Labor	1,175.53	
Telephone and telegraph	166.82	
Laundry	694.56	
Transportation and dray	2,728.68	
		$ 60,020.00

PATIENTS' FUNDS

Salaries: Medical	$ 325.00	
Executive	798.35	
Nurses and attendants	13.54	
Cooks and servants	333.66	
Supplies: Bedding and linen	1,161.09	
Crockery and silver	597.96	
Drugs and medicines	677.12	
Hospital	3,175.18	
Provisions: Meats	5,825.14	
Butter	706.07	
Eggs	9,302.91	
Vegetables and fruits	1,944.89	
Groceries	8,534.06	
Miscellaneous	101.76	
Equipment: Furniture	256.35	
Instruments	9.50	
Miscellaneous	91.95	
Office: Equipment	675.97	
Books and stationery	230.52	
Stamps	465.39	
Power, light, water, refrigeration: Labor	540.63	
Supplies	5,182.44	
Farm: Live stock	604.16	
Repairs to buildings	25.59	
Machinery and tools	319.35	
Seeds and fertilizers	1,725.19	
Feed	1,486.97	
Labor	1,066.94	
Miscellaneous	86.60	
Dairy: Live stock	75.00	
Insurance, live stock	30.00	

Repairs to buildings	$ 1.50	
Fixtures	48.79	
Feed	5,670.92	
Supplies	266.03	
Labor	506.02	
Miscellaneous labor	141.10	
Telephone and telegraph	398.86	
Laundry	2,947.99	
Transportation and dray	1,681.70	
Refund board and treatment	3,863.17	
Hogs	508.82	
Landscape	22.21	
X-ray	519.47	
Freight and express	344.88	
Miscellaneous	10.00	
		$ 63,348.97
Total expenditures		$197,472.98

STATEMENT SHOWING DISPOSITION OF FUNDS

Permanent Improvement Fund, authorized	$ 60,104.01	
Expenditure, fiscal year 1919		$ 60,104.01
Extension Fund appropriation	14,000.00	
Expenditure, fiscal year 1919		14,000.00
Maintenance appropriation	60,000.00	
1920 appropriation anticipated	20.00	
Expenditure, fiscal year 1919		60,020.00
	$134,124.01	$134,124.01
Disbursements: Maintenance funds	60,020.00	
Patients' funds	63,348.97	
	$123,368.97	
Less refunds, board and treatment	3,863.17	
Actual expenditure	$119,505.80	
Hospital days, 1919	43,446	
Average cost per patient per day	2.65	

CASH REPORT OF NORTH CAROLINA SANATORIUM FOR YEAR ENDING DECEMBER 1, 1919

Permanent Improvement Fund		$ 60,104.01
Maintenance appropriation		60,020.00
Extension Fund		14,000.00
Fire Commission Fund		388.78
Bequest from Hoyt estate		197.50
Patients' Fund:		
Board and treatment	$53,408.98	
Auto	8.10	
Laundry	1,509.95	

Hospital supplies	$ 1,505.29		
Telephone and telegraph	87.38		
Post office rent	90.00		
Sale of provisions	1,115.70		
Farm	210.30		
Dairy	281.72		
X-ray	250.07		
Hogs	25.00		
Power	26.94		
Refrigeration	100.00		
Drugs and medicines	18.10		
Real estate	77.00		
		$ 58,749.53	
Cash on hand December 1, 1918		1,082.12	
Overdraft, Page Trust Company, December 1, 1919		20,175.64	
Overdraft, Bank of Hoke, December 1, 1919		2,244.41	
Accounts receivable, December 1, 1919		1.40	
		$216,963.39	
Less State appropriation, not deposited			$ 16,624.01
Less cash on hand, December 1, 1919		19,490.41	2,866.40
Expenditures per disbursement sheet		$197,472.98	

NAME OF ORGANIZATIONS THAT HAVE SUPPORTED PATIENTS DURING THE YEAR, NUMBER OF PATIENTS SO SUPPORTED, AND AMOUNT PAID

Name of Club or Organization	*Number Patients Supported*	*Amount Paid*
Caswell Training School	1	$ 185.00
Woman's Club, Henderson	1	153.00
Baptist Philathea Class, Henderson	1	45.00
Board County Commissioners, Pasquotank	2	190.00
Erwin Cotton Mills	1	140.00
I. O. O. F. Orphanage	1	96.00
Clerk Superior Court, Pasquotank	1	95.00
Oxford Orphanage	1	230.00
Proximity Manufacturing Co.	1	255.00
Woman's Club, Greensboro	2	355.00
Board County Commissioners, Buncombe	1	241.00
Revolution Cotton Mills	1	109.00
Thompson Orphanage	2	275.00
Pythian Home	1	62.00
Board County Commissioners, Henderson	1	229.00
Tolar-Hart Mills	1	41.00
Presbyterian Church, Fayetteville	1	41.00
Charity Organization Society, Goldsboro	1	61.00
Red Cross, Fayetteville	1	68.00
Red Cross, Greensboro	2	191.00
Red Cross, Lenoir	1	50.00
Totals	25	$3,112.00

SEVENTH ANNUAL REPORT

OF THE

North Carolina Sanatorium for the Treatment of Tuberculosis

UNDER CONTROL OF STATE BOARD OF HEALTH

SANATORIUM, N. C.

1920

RALEIGH, N. C.
EDWARDS & BROUGHTON PRINTING COMPANY
STATE PRINTERS
1923

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NORTH CAROLINA SANATORIUM

FOR THE TREATMENT OF TUBERCULOSIS

(Under the Control of the State Board of Health)

PERSONNEL

MEMBERS STATE BOARD OF HEALTH

Dr. J. Howell Way, President.....Waynesville
Dr. Richard H. Lewis.....Raleigh
Col. J. L. Ludlow.....Winston-Salem
Dr. A. J. Crowell.....Charlotte
Dr. Thomas E. Anderson.....Statesville
Dr. Charles O'H. Laughinghouse.....Greenville
E. J. Tucker, D.D.S.....Roxboro
Dr. F. R. Harris.....Henderson
Dr. Cyrus Thompson.....Jacksonville

Dr. W. S. Rankin, Secretary State Board of Health and State Health Officer, Raleigh, N. C.

Superintendent.....L. B. McBrayer, M. D., F. A. C. P.
Assistant Superintendent.....P. P. McCain, A. B., M. D.
Assistant Physician and Director of Laboratories...R. McBrayer, A.B., M.D.
Assistant Physician.....J. L. Spruill, M.D.
Private Secretary to Superintendent.....A. W. Snow
Head Nurse.....Miss Mamie O'Kelly
Head Nurse, Assistant.....Miss E. Connolly
Cashier.....J. M. Clark

EXTENSION DEPARTMENT OF THE NORTH CAROLINA SANATORIUM FOR THE TREATMENT OF TUBERCULOSIS

Bureau of Tuberculosis, State Board of Health

Director.....L. B. McBrayer, M. D., F. A. C. P.
Assistant Director.....P. P. McCain, A.B., M.D.
Office Secretary.....A. W. Snow
Stenographer.....Miss L. Bouldin
Stenographer.....Miss L. Mayhugh
Stenographer.....Miss S. Brabble
Director Organization and Education Among the Negroes .....Mrs. Florence C. Williams

NORTH CAROLINA TUBERCULOSIS ASSOCIATION
DIRECTORS

Mrs. Gordon Finger, *Pres.*
CHARLOTTE, N. C.

Mrs. Chas. R. Whitaker, *Vice Pres.*
HENDERSONVILLE, N. C.

Dr. L. B. McBrayer, *Ex. Sec'y,*
SANATORIUM, N. C.

Dr. Otho Ross,
CHARLOTTE, N. C.

Mrs. Cuthbert Martin,
WILMINGTON, N. C.

Mrs. W. N. Hutt,
CANDOR, N. C.

Mrs. T. D. Jones,
DURHAM, N. C.

Dr. C. L. Minor,
ASHEVILLE, N. C.

Mrs. C. C. Hook,
CHARLOTTE, N. C.

Dr. W. L. Dunn,
ASHEVILLE, N. C.

Col. J. L. Ludlow,
WINSTON-SALEM, N. C.

Mrs. Mark Quinnerly,
GREENVILLE, N. C.

Mrs. S. H. Brown,
OXFORD, N. C.

Mrs. J. L. Wetmore,
ARDEN, N. C.

Mr. Hamilton C. Jones,
CHARLOTTE, N. C.

Mrs. R. C. Warren,
GASTONIA, N. C.

A. W. Snow, *Asst. Secretary*

Dr. E. T. Ransom, *Moving Picture Exhibitor and Lecturer*

LETTER OF TRANSMITTAL

Dr. W. S. Rankin, *Secretary,*
State Board of Health,
Raleigh, N. C.

My Dear Doctor:—I hereby transmit to you, and through you to the State Board of Health and the Governor and General Assembly, a report for the year 1920, being the seventh annual report of the North Carolina Sanatorium for the Treatment of Tuberculosis.

Very respectfully yours,

L. B. McBrayer,
Superintendent.

A DOLEFUL TALE—BUT THE SUN STILL SHINES

This has been perhaps the most trying year in some respects the institution has had—the general unrest, the disinclination of most laboring people to work, has made it very difficult to secure sufficient employees to properly handle the place. As an example, it cost the Sanatorium $147.00 in traveling expenses, one month, to replace the turnover in help, and then the help was not sufficient in amount or satisfactory in service.

The psychology of the after-the-war unrest affected the patients, too, to a small extent comparatively. We have been caring for an average of forty ex-service men since the beginning of the necessity for such treatment, and have had splendid results and little trouble until the last year. The men we are getting now do not seem to be interested in getting well of tuberculosis, the large amount of compensation they are receiving seeming to add to that attitude, and they are, without knowing it, interfering with the treatment of civilian patients. We feel that we have discharged our obligation to the tuberculous ex-service men and that the United States Government is now prepared to give them proper care, and with the approval of our Board we will in the very near future cease to admit ex-service men and will not renew our agreement with the United States Public Health Service. We have been glad to render them this service until such time as the United States Government was prepared to take care of them.

Since we have been caring for the tuberculous ex-service men we have had two agencies that have been very helpful, (1) Occupational Therapy by the Federal Board for Vocational Education, and we were one of the first two institutions in the United States to put in this service, and (2) The Medical Social Service of the American Red Cross. Both of these will cease when we cease to admit ex-service men for the United States Public Health Service.

Our religious services have continued about as usual. Sunday school every Sunday evening and mid-week prayer-meeting, conducted by the patients, with such help as they needed from the staff. We also have an occasional service by a minister, and we are especially indebted to Rev. Mr. T. E. White of the Christian Church, Sanford, who has come once every month and spent the whole day, visiting with the patients confined to bed during the morning hours and holding service in the afternoon. Miss Grace MacKinnon, a trained nurse of Bennettsville, S. C., has been sending money to buy

literature for the Sunday school for several years. Entertainment has been usually sufficient. The Woman's Club of Sanatorium has provided many pleasant evenings, the patients themselves usually forming the caste for the plays. Mrs. Leonard Tufts, of Pinehurst, brought over one afternoon each week during the winter some splendid entertainment; for example, Miss Annie Oakley gave an exhibition of her expert shooting; Mr. Edgar A. Guest recited some of his own productions, etc., etc. The ladies from Carthage have given a few delightful concerts. Many others have contributed to the pleasure and entertainment of the patients.

Our building program has gone along, though very slowly; the unrest and disinclination to work showing its effect markedly in this work.

We could not close without expressing appreciation for the loyalty and coöperation of those employees who have stood by the institution and us through all the turmoil of war and its aftermath. From cooks, waiters and orderlies all the way up to the staff there have been some that were faithful and dependable always.

On the whole our work has progressed along all lines. The results of our treatment have continued good, very good, and the influence of our work throughout the State is rapidly becoming deeper and wider and more far-reaching. The decrease in the actual number of deaths in the State by more than 30% in seven years is eloquent testimony.

Respectfully submitted,

L. B. McBRAYER,

Superintendent.

SEVENTH ANNUAL REPORT

OF

THE NORTH CAROLINA SANATORIUM FOR THE TREATMENT OF TUBERCULOSIS

UNDER CONTROL OF

THE STATE BOARD OF HEALTH

SANATORIUM, N. C.

SUMMARY OF YEAR'S WORK

OF THE NORTH CAROLINA SANATORIUM (INCLUDING THE EXTENSION DEPARTMENT, 1920

Letters and postals received		36,862
Letters written:		
Individual	14,269	
Multigraph	61,416	
Total		75,685
Articles written (approximate number words):		
Newspaper	9,835	
Bulletin	23,000	
Official pamphlets	20,950	
Other publications	21,200	
Articles copied	280,082	
Total		355,067
Forms and placards prepared		190
Total number copies of forms and placards		89,249
Blank cards mailed for reporting cases of tuberculosis		4,067
Number cases reported:		
White	1,883	
Black	1,412	
Total		3,295
Literature:		
Pieces sent to reported cases	10,761	
Other literature sent out	72,153	
Sample Crusade Literature sent	11,050	
Crusade literature sent for pupils	21,283	
Total		115,247

Sputum cups distributed	168,906
Tuberculin sent physicians for von Pirquet diagnostic test	245
Blanks for reporting results of von Pirquet diagnostic test	245
Patients' histories written (312); approximate number words	304,291
Envelopes addressed	80,781
Lantern and illustrated slide lectures loaned	24
Number of weeks in use	59
Total audience	12,650
Films loaned (health subjects)	6
Number times exhibited	14
Total audience	1,700

Dr. L. B. McBrayer:

Addresses delivered	23
Total audiences	3,025
Conferences with local authorities	207
Days out of office	75

Dr. P. P. McCain:

Attended National Tuberculosis Association and the American Sanatorium Association at Saranac Lake, and spent 3 days investigating the Trudeau School of Tuberculosis and the Trudeau Laboratory and X-Ray Departments.

Total number days out of office (including 6 days on vacation)	22
Total audiences	400
Conferences held	19
Consultations	24
Clinics visited	0
Sanatoria visited	0

Dr. J. L. Spruill:

County clinics held	12
Patients examined	1,014
Addresses	33
Total audiences	5,146
Conferences	13

Number of outside patients examined	826

SUMMARY OF WORK AMONG THE NEGROES

Lanterns and illustrated slide lectures loaned	17
Number of weeks loaned	53
Total audience	12,710
Modern Health Crusaders enrolled	12,000
Number reached by Mrs. Williams and 45 colored supervisors	256,569
Number present at health moving picture entertainments during 8½ months, from March 15, 1920, to November 30, 1920	46,815

Exhibits:

Southern Conference on Tuberculosis, Jacksonville, Florida
Sandhill fair.

Number patients December 1, 1919	125
Number patients admitted	296
Number patients discharged	308
Number patients December 1, 1920	113
Number hospital days	41,118
State appropriation, maintenance	$50,000
Cost per patient per day to State	$1.12

Appropriations, 1919:

Maintenance	$50,000.00
Extension	14,000.00
Total	$64,000.00

Appropriations, 1920:

Maintenance	$50,000.00
Extension	15,000.00
Extra to cover deficit	5,000.00
Total	$70,000.00

LITERATURE OF THE BUREAU OF TUBERCULOSIS OF THE NORTH CAROLINA STATE BOARD OF HEALTH

TITLE OF BULLETIN

Bulletin No. 61—How to Care for a Tuberculosis Patient.

Bulletin No. 70—TUBERCULOSIS: (A. M. A. Bulletin).

Bulletin No. 92—An Act to Prevent the Convicts or Prisoners of North Carolina from Contracting Tuberculosis.

Bulletin No. 117—Tuberculosis: Its Symptoms, Prevention and Cure.

Bulletin No. 129—County Tuberculosis Problem.

Bulletin No. 157—The Problem of the Returned Tuberculous Soldier.

Bulletin No. 1000—If There Is To Be Democratic Equality of Opportunity There Must Be An Equal Opportunity for Health.

Bulletin No. 1001—Murder! (Perfectly Legal.)

Bulletin No. 1002—Carry On.

Bulletin No. 1003—Fundamental Principles of Public Health Nursing.

The Next to Go.

The Story of Four Generations.

Is Your Muffler Working or Your Cut-out Open?

They are Dead.

Camouflage.

U-Boat.

After the "Flu," What?—"Watch Your Step."

The Incidence and the Importance of Pleurisy in Early Tuberculosis, by Dr. P. P. McCain, Sanatorium, N. C.

A Plea for An Earlier Diagnosis of Pulmonary Tuberculosis by the General Practitioner, by Dr. J. H. Way, Waynesville, N. C.

The Diagnosis of Early Pulmonary Tuberculosis for the General Practitioner, by Dr. S. E. Thompson, Carlsbad, Texas.

A Modern Prophecy, by Dr. Benj. K. Hays, Oxford, N. C.

The Infectiousness of Tuberculosis, by Dr. T. D. Coleman, Augusta, Ga.

Importance of the Whole-time Health Officer and the Whole-time Health Nurse in the Campaign Against Tuberculosis and All Preventable Diseases, by Dr. L. B. McBrayer, Sanatorium, N. C.

Tuberculosis: A Lecture for Teachers.

Tuberculosis Program for North Carolina.

Moving Picture Service.

Health Work Among the Negroes.

Halt! You Are Under Arrest.

The Slate of the General Assembly.

MEDICAL REPORT

DEFINITIONS OF TERMS EMPLOYED

On Admission

These definitions indicate the furthest extent of disease and the greatest severity of symptoms that a patient can present and still belong to the stage defined. All patients beyond the incipient stage fall under the moderately advanced stage, unless the physical signs and symptoms exceed those of the moderately advanced stage, when they should be classified as far advanced.

Incipient.

Slight or no constitutional symptoms (including, particularly, gastric or intestinal disturbance or rapid loss of weight). Slight or no elevation of temperature or acceleration of pulse at any time during the twenty-four hours.

Expectoration usually small in amount or absent. Tubercle bacilli may be present or absent.

Slight infiltration limited to the apex of one or both lungs or a small part of one lobe.

No tuberculous complications.

Moderately Advanced.

No marked impairment of function, either local or constitutional.

Localized consolidation moderate in extent with little or no evidence of cavity formation; or infiltration more extensive than under incipient. No serious complications.

Far Advanced.

Marked impairment of function, local and constitutional.

Marked consolidation of entire lobe.

Or disseminated areas of beginning cavity formation.

Or serious complications.

Miliary Tuberculosis.

On Discharge

Arrested.

All constitutional symptoms and expectoration with bacilli absent for a period of six months; the physical signs to be those of a healed lesion.

Apparently Arrested.

All constitutional symptoms and expectoration with bacilli absent for a period of three months; the physical signs to be those of a healed lesion.

Quiescent.

Absence of all constitutional symptoms, expectoration and bacilli may or may not be present; physical signs stationary or retrogressive. The foregoing conditions to have existed for at least two months.

Improved.

Constitutional symptoms lessened or entirely absent; physical signs improved or unchanged; cough and expectoration with bacilli usually present.

Unimproved.

All essential symptoms and signs unabated or increased.

TERMS USED IN DEFINITION OF "INCIPIENT"

1. *Slight Constitutional Disturbance.*

Slight loss of appetite, of strength, of weight; lassitude; possibly slight acceleration of pulse or possibly slight elevation of temperature. The impairment of health may be so slight that the patient does not look or feel sick in the ordinary sense of the word.

2. *Slight Elevation of Temperature.*

Maximum temperature after rest for one hour, never goes 99.5 to 100 degrees F. by mouth (or 100.5 per rectum).

3. *Slight Acceleration of Pulse.*

Maximum pulse rate not over 90 after rest for one hour, sitting or lying, except when due to causes other than tuberculosis.

4. *Absence of Tubercle Bacilli.*

Each monthly examination (if the sputum be negative) to consist of a careful microscopic examination, with a mechanical stage, of two smears, devoting at least three minutes to each smear, made from selected particles (at least six from different parts) of the sputum on each of three successive days. The morning sputum should always be obtained, or, better, the minute bits that some arrested patients raise at very infrequent intervals. It is not yet deemed wise to insist on digestion and centrifugalization, or inoculation of guinea pigs.

5. *Infiltration.*

Physical signs of slight prominence of the clavicle, lessened movement of chest, narrowing of apical resonance with lessened movement of base of lung, slight or no change in resonance, distant or loud and harsh breathing, with or without some change in the rhythm (i. e., prolonged expiration); vocal resonance possibly slightly increased; or fine or moderately coarse râles present or absent. If sputum contains tubercle bacilli, any one of these.

6. *Apex.*

That portion of the lung situated above the clavicle and the third vertebral spine.

7. *Small Part of One Lobe.*

An area of one or two intercostal spaces, or an area not exceeding 60 to 80 sq. cm. in extent, according to the size of the patient.

TERMS USED IN DEFINITION OF "MODERATELY ADVANCED"

8. *Marked Impairment of Function, Either Local or Constitutional.*

Local: Marked dyspnea on exertion, limiting seriously the patient's activity.

Constitutional: Marked weakness, anorexia, tachycardia.

9. *Moderate Extent of Localized Consolidation.*

An area of one-half lobe or less, but may involve both apices; marked dullness, bronchial or decidedly broncho-vesicular breathing; markedly increased vocal resonance; râles usually present. These signs are to be sharply limited as to area instead of gradually shading into normal physical signs.

10. *Evidences of Destruction of Tissue.*

Presence of tubercle bacilli or elastic fibers in the sputum or the presence of the physical signs of a cavity. There are no absolutely certain physical signs of cavity, but a combination of any four of the following signs is to be taken as indicative of a cavity: (1) cracked-pot note; (2) amphoric breathing; (3) intense whispering pectoriloquy; (4) a veiled puff or post-tussive suction; (5) bubbling or resonant râles. "Physical signs of softening" do not admit of any definition apart from that of cavity formation, and the terms should not be used.

11. *Disseminated Fibroid Deposits.*

More or less localized areas of fibrous tissue, producing on physical examination some change or dullness in the percussion note, more or less increase of vocal resonance, harsh, suppressed, or broncho-vesicular breathing, râles sibilant or sonorous usually, but at times fine and moderately coarse.

12. *Serious Complications.*

These should be limited to tuberculous complications, such as meningitis, pharyngitis, laryngitis (except slight thickening in the posterior interarytenoid space, and superficial ulceration of a vocal chord), enteritis, peritonitis, nephritis, cystitis, orchitis, adenitis (unless very slight), etc.

MEDICAL REPORT

STATISTICAL 1920

Number patients to be reported on	311
Number patients not tuberculous	18
Number patients not classified	20
Number patients in Sanatorium December 1, 1920	113
Total number patients treated during year	462

60 PATIENTS WHO STAYED LESS THAN 30 DAYS

Condition on Admission		Condition on Discharge					
		Arrested	Apparently Arrested	Quiescent	Improved	Unimproved	Died
Incipient	20	0	0	0	20	0	0
Moderately advanced	20	0	0	0	17	3	0
Far advanced	20	0	0	0	11	2	7
Acute tuberculosis	0	0	0	0	0	0	0
Totals	60	0	0	0	48	5	7

Average stay, 16.01 days. Longest stay, 29 days. Shortest stay, 2 days.

Number Gained Weight, 35		Number Lost Weight, 11	
Average gain	3.99 Lbs.	Average loss	3.43 Lbs.
Largest gain	8.5 Lbs.	Largest loss	8. Lbs.
Smallest gain	.5 Lb.	Smallest loss	.75 Lb.
Stationary	7	Not weighed	7

56 PATIENTS WHO STAYED FROM 30 TO 89 DAYS

Condition on Admission		Condition on Discharge					
		Arrested	Apparently Arrested	Quiescent	Improved	Unimproved	Died
Incipient	17	0	0	7	10	0	0
Moderately advanced	26	0	0	3	22	1	0
Far advanced	13	0	0	0	7	4	0
Acute tuberculosis	0	0	0	0	0	0	2
Totals	56	0	0	10	39	5	2

Average stay, 53.6 days. Longest stay, 88 days. Shortest stay, 30 days.

Number Gained Weight, 46		Number Lost Weight, 8	
Average gain	6.6 Lbs.	Average loss	3.8 Lbs.
Largest gain	21. Lbs.	Largest loss	8. Lbs.
Smallest gain	.5 Lb.	Smallest loss	1. Lb.
Stationary	1	Not weighed	1

195 PATIENTS WHO STAYED 90 DAYS OR MORE

Condition on Admission		Condition on Discharge					
		Arrested	Apparently Arrested	Quiescent	Improved	Unimproved	Died
Incipient	63	17	25	19	2	0	0
Moderately advanced	78	4	5	40	15	14	0
Far advanced	54	0	0	10	16	19	9
Acute tuberculosis	0	0	0	0	0	0	0
Totals	195	21	30	69	33	33	9

Average stay, 206 days. Longest stay, 475 days. Shortest stay, 90 days.

Number Gained Weight, 156		Number Lost Weight, 30	
Average gain	13.1 Lbs.	Average loss	6.5 Lbs.
Largest gain	61. Lbs.	Largest loss	22.5 Lbs.
Smallest gain	1. Lb.	Smallest loss	1. Lb.
Stationary	8	Not weighed	1

HISTORY OF HEMORRHAGE

Negative		187
Positive	Previous only	104
	Previous and during residence	16
	During residence only	4
		311

RESULTS OF SPUTUM EXAMINATIONS

Negative or no sputum		154
Positive	On admission	145
	During residence	135
	On discharge	117
		551

22 PATIENTS WHO TOOK THE TUBERCULIN TEST

Positive	8
Negative	14
	22

Sex		Age						Civil Condition		
		-19	20-29	30-39	40-49	50-59	60-+	Single	Married	Widowed
Male	172	8	97	53	11	1	2	112	54	6
Female	139	17	69	38	11	2	2	56	75	8
Totals	311	25	166	91	22	3	4	168	129	14

COMPLICATIONS

Anal fistula	4
Arterial hypertension	1
Arthritis	2
Asthma	1
Bronchiectasis	1
Bronchitis	13
Broncho-pneumonia	7
Cervical adenitis	1
Cystitis	1
Dementia praecox	1
Emphysema	1
Enteritis	10
Gastroptosis	1
Glossitis Tb.	1
Gonorrhoea	2
Hookworm	16
Hyperthyrodism	6
Laryngitis	24
Melancholia	2
Mitral regurgitation	1
Nephritis	3
Orchitis	2
Otitis media	4
Pelvic peritonitis	1
Peritonitis	2
Pleurisy with effusion	4
Pott's Disease	1
Pregnancy	3
Pyopneumothorax	1
Salpingitis	1
Syphilis	4

OCCUPATIONS

Bookkeepers	3
Bricklayer	1
Carpenter	1
Cigar-maker	1
City mail carrier	1
Clerks in stores	7
Community service director	1
Cotton mill employees	13
Electrician	1
Farmers	15
Fisherman	1
Flagman	1
Graduate nurses	3
Hosiery mill employee	1
Housekeeper	1
Housewives	78
House work at home	25
Insurance	1
Insurance agent	1
Laborer	2
Machinists	5
Manufacturer	1
Mattress finisher	1
Merchants	2
Milliners	3
Music teacher	1
Office clerks	3
Peach packer	1
Printer	1
Pupil nurses	2
Railroad engineer	1
Rural mail carrier	1
Silk mill operator	1
Soldiers	92
Stenographers	4
Students	20
Tailor	1
Teachers	3
Traveling salesman	2
United States Navy sailors	7

TOWNS FROM WHICH PATIENTS CAME

Abner	1
Advance	2
Ahoskie	1
Aiken	1
Apex	2
Ararat	2
Ashboro	1
Asheville	3
Aulander	1
Bath	1
Battleboro	1
Belcross	1
Belhaven	2
Belmont	1
Benson	1
Bessemer City	2
Bethel	1
Big Laurel	1
Boone	1
Bostic	1
Burlington	2
Cabarrus	1
Campbell	2
Canton	1
Cardenas	1
Carthage	1
Catawba	1
Cedar Creek	2
Cedar Grove	1
Charlotte	9
Cliffside	1
Clinton	2
Clyde	1
Colerain	3
Concord	5
Conway	1
Corbett	1
Cumberland	1
Currie	1
Denver	1
Duke	1
Dunn	1
Durham	14
Dysortville	1
Eagle Springs	1
East Bend	1
East Lake	1
Elizabeth City	6
Elizabethtown	2
Elkin	3
Ellerbe	1
Elm City	1
Elon College	1
Enfield	3
Fallston	1
Farmville	1
Fayetteville	2
Finley	1
Forest City	1
Four Oaks	1
Franklinton	1
Garner	1
Gastonia	1
Gibson	1
Godwin	1
Goldsboro	1
Greensboro	6
Greenville	6
Henderson	4
Hickory	2
High Point	9
Hillsboro	3
Kannapolis	2
Kerr Station	1
Kinston	2
Laurinburg	1
Lawndale	2
Leaksville	1
Lenoir	1
Lester	1
Lexington	1
Lilesville	1
Lincolnton	1
Linville	1
Linwood	1
Louisburg	1
Lumberton	2
McKenzie, Tenn.	1
Macclesfield	1
Mackeys	1
Manson	1
Marion	1
Marshall	4
Matthews	2
Maxton	3
Mayworth	1
Merry Oaks	1
Mocksville	1
Monroe	1
Mooresville	1
Mount Airy	4
Mount Gilead	1
Mount Holly	1
Mount Ulla	1
Murfreesboro	1
Murphy	1
Neuse	1
New Bern	4
Newport	1
Newton Grove	1
Niagara	1
Pendleton	1
Persimmon Creek	1
Pinehurst	1
Pinetown	1
Plymouth	1
Polloksville	1
Poplar Branch	1
Potecasi	2
Proctor	1
Prospect Hill	1
Raleigh	8
Randleman	1
Red Springs	2
Reidsville	1
Revere	1
Rich Square	1
Roberdel	1
Robersonville	1
Rockford	2
Rockingham	5
Rocky Mount	5
Ronda	1
Rosehill	1
Rosemary	1
Salisbury	3
Sanford	3
Scotland Neck	1
Seaboard	1
Seagrove	1
Selma	1
Shallotte	3
Sharon, Tenn.	1
Siler City	1
Smithfield	1
Snow Hill	1
Sophia	2
Spray	1
Spring Creek	1
Springdale	1
Spring Hope	4
Stacy	1
Staley	1
Stanfield	1
Statesville	1
Summerfield	1
Swepsonville	1
Tabor	1
Tarboro	2
Thomasville	1
Tobaccoville	1
Trenton	1
Vanceboro	1
Vandemere	1
Wadesboro	1
Wake Forest	1
Walnut Cove	2
Washington	2
Waynesville	1
West Durham	1
Westfield	1
Wilmington	6
Wilson	2
Windsor	1
Winston-Salem	4
Woodland	1
Youngsville	2

LIST OF COUNTIES FROM WHICH PATIENTS CAME

Alamance	4	Edgecombe	8	Pamlico	1
Anson	2	Forsyth	5	Pasquotank	6
Avery	1	Franklin	4	Pender	1
Beaufort	6	Gaston	7	Pitt	8
Bertie	5	Greene	1	Randolph	6
Bladen	2	Guilford	16	Richmond	7
Brunswick	3	Halifax	5	Robeson	7
Buncombe	3	Harnett	2	Rockingham	3
Cabarrus	8	Haywood	4	Rowan	4
Caldwell	4	Hertford	2	Rutherford	3
Camden	1	Iredell	2	Sampson	4
Carteret	2	Johnston	4	Scotland	2
Caswell	2	Jones	2	Stanly	1
Catawba	3	Lee	3	Stokes	4
Chatham	2	Lincoln	2	Surry	12
Cherokee	2	McDowell	2	Swain	1
Cleveland	3	Madison	7	Union	1
Columbus	1	Martin	1	Vance	4
Craven	5	Mecklenburg	11	Wake	14
Cumberland	6	Montgomery	2	Warren	2
Currituck	1	Moore	4	Washington	2
Dare	1	Nash	5	Watauga	1
Davidson	3	New Hanover	6	Wayne	1
Davie	3	Northampton	7	Wilkes	2
Duplin	1	Orange	4	Wilson	3
Durham	15			Yadkin	1

SUMMARY MEDICAL REPORT DECEMBER 1, 1919, to NOVEMBER 30, 1920

Patients admitted:	
Incipient	100
Moderately advanced	124
Far advanced	87
Not classified	20
Not tuberculous	18
Total	349
Fatients discharged:	
Arrested	21
Apparently arrested	30
Quiescent	79
Improved	120
Unimproved	43
Died	18
Not tuberculous	18
Not classified	20
Total	349
Hospital days	41,189

LABORATORY REPORT

Sputa: (Miks.)	1,632
(Chem.)	54
Urinalysis: (Miks.)	694
(Chem.)	1,319
24-hour specimens	53
Blood counts:	
W. B. C. Dif. counts	53
W. B. C. counts	150
R. B. C. counts	80
Hemoglobin	73
Color index	52
Arneth	24
Complete count	32
Malaria	9
Wassermann	76
Cultures	11
Widal	10
Smears for plasmodia	7
Pleural fluid	17
Pleural pus	3
Feces	489
Gastric	37
Vaginal smears	15
Autogenous vaccines	1
Fistula discharge	7
Urethral discharge	7
Pus from ear	1
Total	4,872

PRESENT CONDITION OF ALL INCIPIENT PATIENTS DISCHARGED FROM THE SANATORIUM PREVIOUS TO JUNE 30, 1920

Condition on Discharge	Condition November 30, 1920	Years Discharged							
		1914	1915	1916	1917	1918	1919	1920	Total
Arrested 47	Living and working	1	4	5	12	5	5	10	42
	Living and not working	0	0	0	1	0	1	3	5
	Dead	0	0	0	0	0	0	0	0
	Lost	0	0	0	0	0	0	0	0
Apparently Arrested 157	Living and working	1	5	30	33	30	28	11	138
	Living and not working	1	1	1	2	2	6	2	15
	Dead	0	1	1	0	0	1	0	3
	Lost	0	0	0	1	0	0	0	1
Quiescent 80	Living and working	5	4	10	11	13	13	6	62
	Living and not working	0	0	0	1	1	4	2	8
	Dead	0	5	2	0	0	0	0	7
	Lost	0	1	1		0	1	0	3
Improved 67	Living and working	1	4	1	13	9	9	3	50
	Living and not working	0	0	2	1	1	4	1	9
	Dead	0	1	0	1	2	0	0	4
	Lost	1	0	2	1	0	0	0	4
Unimproved 4	Living and working	0	0	1	1	0	1	0	3
	Living and not working	0	0	0	0	0	0	0	0
	Dead	0	0	0	1	0	0	0	1
	Lost	0	0	0	0	0	0	0	0
Total 355	Living and working	8	17	57	70	57	56	30	295
	Living and not working	1	1	3	5	4	15	8	37
	Dead	0	1	3	2	2	1	0	15
	Lost	1	1	3	2	0	1	0	8

PRESENT CONDITION OF ALL MODERATELY ADVANCED PATIENTS DISCHARGED FROM THE SANATORIUM PREVIOUS TO JUNE 30, 1920

Condition on Discharge	Condition November 30, 1920	Years Discharged							
		1914	1915	1916	1917	1918	1919	1920	Total
Arrested 20	Living and working	0	4	7	1	1	1	1	15
	Living and not working	0	0	0	2	0	0	3	5
	Dead	0	0	0	0	0	0	0	0
	Lost	0	0	0	0	0	0	0	0
Apparently Arrested 50	Living and working	3	1	9	5	11	4	7	40
	Living and not working	0	0	0	0	0	3	3	6
	Dead	1	1	1	0	0	0	0	3
	Lost	0	0	0	0	1	0	0	1
Quiescent 318	Living and working	6	16	29	41	30	40	6	168
	Living and not working	0	1	4	9	8	23	8	53
	Dead	11	19	31	16	11	4	0	92
	Lost	1	0	0	2	1	1	0	5
Improved 202	Living and working	5	6	10	16	17	13	2	69
	Living and not working	2	2	1	7	5	6	9	32
	Dead	17	18	19	22	19	4	0	99
	Lost	0	0	0	1	0	0	1	2
Unimproved 42	Living and working	0	0	2	0	0	0	0	2
	Living and not working	0	0	0	0	2	1	7	10
	Dead	1	4	4	6	8	7	0	30
	Lost	0	0	0	0	0	0	0	0
Total 632	Living and working	14	27	57	63	59	58	16	294
	Living and not working	2	3	5	18	15	33	30	106
	Dead	30	42	55	44	38	15	0	224
	Lost	1	0	0	3	2	1	1	8

PRESENT CONDITION OF ALL FAR ADVANCED PATIENTS DISCHARGED FROM THE SANATORIUM PREVIOUS TO JUNE 30, 1920

Condition on Discharge	Condition November 30, 1920	Years Discharged							
		1914	1915	1916	1917	1918	1919	1920	Total
Arrested 0	Living and working	0	0	0	0	0	0	0	0
	Living and not working	0	0	0	0	0	0	0	0
	Dead	0	0	0	0	0	0	0	0
	Lost	0	0	0	0	0	0	0	0
Apparently Arrested 1	Living and working	0	0	0	0	0	1	0	1
	Living and not working	0	0	0	0	0	0	0	0
	Dead	0	0	0	0	0	0	0	0
	Lost	0	0	0	0	0	0	0	0
Quiescent 86	Living and working	0	4	3	8	8	8	1	32
	Living and not working	1	2	0	3	5	3	2	16
	Dead	2	10	8	9	5	2	1	37
	Lost	0	0	0	0	0	1	0	1
Improved 152	Living and working	0	2	2	5	8	0	0	17
	Living and not working	0	2	2	0	5	10	7	26
	Dead	19	21	16	30	11	10	0	107
	Lost	0	0	1	0	0	1	0	2
Unimproved 133	Living and working	0	0	0	1	1	0	0	2
	Living and not working	0	1	0	0	1	2	7	11
	Dead	19	13	13	17	29	25	3	119
	Lost	0	0	0	0	0	1	0	1
Total 372	Living and working	0	6	5	14	17	9	1	52
	Living and not working	1	5	2	3	11	15	16	53
	Dead	40	44	37	56	45	37	4	263
	Lost	0	0	1	0	0	3	0	4

OUTSIDE PATIENTS EXAMINED FOR DIAGNOSIS AND CONSULTATION

December	41	April	65	August	75
January	51	May	93	September	89
February	113	June	42	October	66
March	50	July	88	November	53
Total					826

ORGANIZATIONS SUPPORTING PATIENTS AT NORTH CAROLINA SANATORIUM, WITH NUMBER SO SUPPORTED

American Red Cross, Greenville, N. C.	1
American Red Cross, Greensboro, N. C.	1
American Red Cross, Henderson, N. C.	1
American Red Cross, Fayetteville, N. C.	3
American Red Cross, Raleigh, N. C.	1
American Red Cross, Lenoir, N. C.	1
Caswell Training School, Kinston, N. C.	1
Baptist Philathea Class, Henderson, N. C.	1
Board of County Commissioners, Pasquotank County	2
Board of County Commissioners, Surry County	1
District Nurse and Relief Commission, Greensboro, N. C.	1
First Baptist Church, Elizabeth City, N. C.	1
Scotland Neck Mills, Scotland Neck, N. C.	1
Thompson Orphanage, Charlotte, N. C.	1
City of Elkin	1
Board of Charity and Relief, Charlotte, N. C.	1
Board of Charity and Relief, Goldsboro, N. C.	1
Baptist Baraca Class, Oxford, N. C.	1

FINANCIAL STATEMENT, 1920

ASSETS AND LIABILITIES

Assets

Fixed Properties:		
Real estate (Hospital grounds)	$ 20,000.00	
Administration building	6,100.00	
Superintendent's residence	7,150.00	
Nurses' home	10,200.00	
Assembly hall, dining hall and kitchen	8,500.00	
Infirmary	184,684.31	
One-story shack	3,700.00	
Two-story shack	6,731.84	
Snow Hill cottage	1,750.00	
Physician's residence	3,500.00	
Farm residence	3,705.64	
Real estate (farm)	34,750.00	
Dairy buildings and equipment	23,728.10	
Power, heat, water, lights, refrigeration, and plumbing	51,070.47	
Telephone system	3,290.37	
Sewer system and disposal plants	11,178.39	$380,039.12
Inventories:		
Farm supplies	1,846.60	
Machinery and tools	2,810.90	
Live stock	1,875.00	
Dairy supplies	2,647.40	
Live stock	18,490.00	
Hogs	2,575.00	
Furniture and fixtures	17,208.29	
Linen and bedding	6,441.40	
Crockery and silver	542.40	
Drugs and medicines	1,750.00	
Hospital supplies and equipment	14,677.05	
Provisions	7,145.45	
Training school books	198.16	
Power, heat, water, etc., supplies	2,182.20	
Telephone system (supplies)	150.00	
Stereopticon outfit	131.00	
Library	135.00	
Office supplies (business)	200.00	
Office equipment (business)	408.00	
Office supplies (extension)	1,057.00	
Office equipment (extension)	3,473.00	
Laboratory and medical office equipment	4,439.05	
Transportation and drayage equipment	3,650.00	94,032.90
Cash in drawer	1,988.12	
Cash in banks	4,172.26	
Balance permanent improvement fund	23,073.42	29,233.80
		$503,305.82

LIABILITIES

Reserve for depreciation	$ 19,286.38	
Overdraft, extension fund	197.50	
Balance contract H. F. Hann & Co	8,837.47	
Extra work, H. F. Hann & Co.:		
Labor ceiling attic left wing	420.58	
Work on dairy barn	73.20	
Work on Snow-Hill cottage	50.79	
Balance L. F. Waldrop & Co. contract	3,108.34	
Balance Otis Elevator Company	2,725.00	
Balance General Fire Extinguisher Company	3,568.40	
State Architect's Cert. No. 10 unpaid	1,530.00	
State Architect's Cert. No. 14 unpaid	1,530.00	
State Architect's Cert. No. 15 unpaid	1,402.50	
State Architect's Cert. No. 16 unpaid	1,096.00	
State Red Cross Seal Commission:		
Soldiers B. and T. advanced	3,187.00	
H. F. Hann & Co., removing awnings	17.60	
Current accounts payable:		
Surgical Selling Company	314.93	
S. H. Couch & Company	1,000.00	
Carlisle Commission Company	490.98	
Virginia Machinery and Well Company	771.09	
J. A. Arey	2.50	
City Telephone Company	10.60	
P. P. McCain, expenses to American Sanatorial Assembly	91.35	
W. H. Arthur	5.00	
W. I. Van Ness Company	8.58	
Pound & Moore	9.00	
Remington Typewriter Company	1.00	
Mrs. F. C. Williams, traveling expenses	139.88	
Swift & Company	906.46	
Armour & Company	487.34	
George Marsh Company	751.95	
J. T. White Company, Inc	50.65	
Lexington Grocery Company	202.48	
Kingan & Company	100.65	
Kronenberg X-Ray and Supply Company	177.07	
J. M. Thompson Company	1,144.11	
J. E. Covington	33.35	
J. S. Maultsby	6.75	
Refund board and treatment:		
Albert Hollowell	42.00	
Grinnell Company	504.07	
Citizens Lumber Company	450.27	$ 54,732.84
Net worth—Assets in excess of liabilities		$448,572.98

TRIAL BALANCE

NOVEMBER 30, 1920.

	Dr.	Cr.
Surplus		$477,661.56
Real estate, Sanatorium grounds	$ 20,000.00	
Administration building	6,100.00	
Nurses' home	10,200.00	
Superintendent's residence	7,150.00	
Assembly hall, dining hall and kitchen	8,500.00	
Infirmary	184,684.31	
Open-air cottage No. 1	3,700.00	
Open-air cottage No. 2	6,731.84	
Snow-Hill cottage	1,750.00	
Physicians' residence	3,500.00	
Farm supplies and expense	1,846.60	
Real estate, farm	34,750.00	
Farm machinery and equipment	2,810.90	
Farm live stock	1,875.00	
Farm residence	3,705.64	
Dairy supplies and expense	2,647.40	
Barns, silos, bottling plant and equipment	23,728.10	
Dairy live stock	18,490.00	
Hog account	2,575.00	
Furniture and fixtures:		
Hospital	7,042.00	
Dining hall and kitchen	7,521.60	
Superintendent's residence	1,594.69	
Nurses' home	1,050.00	
Linen and bedding	6,441.40	
Crockery and silver	542.40	
Drugs and medicine	1,750.00	
Hospital supplies and equipment	14,677.05	
Provisions	7,145.45	
Training school books	198.16	
Power, heat, water, lights	53,252.67	
Telephone system	3,440.37	
Stereopticon outfit	131.00	
Library	135.00	
Office supplies—business	200.00	
Office equipment—business	408.00	
Office supplies—extension	1,057.00	
Office equipment—extension	3,473.00	
Laboratory and medical office equipment	4,439.05	
Sewer system and disposal plant	11,178.39	
Transportation and drayage equipment	3,650.00	
Reserve for depreciation		19,286.38
Permanent improvement fund	23,073.42	
Extension fund		197.50
Totals	$497,145.44	$497,145.44

PERMANENT IMPROVEMENT FUND

Appropriation of General Assembly 1917	$150,000.00
Appropriation of General Assembly 1919	$100,000.00
	$250,000.00

Disbursements

1917—			
Buildings, new	$ 51.36		
Buildings, repairs	2,986.74		
Dining hall and kitchen	37.38		
Telephone system	77.08		
Heating system	92.82		
Power (boiler)	4,025.47		
Lights	62.42		
Waterworks	14,965.05		
Refrigeration	11.70		
Landscape	30.80		
Sewer system	4,903.88	$27,244.79	
1918—			
Buildings, new	$ 2,585.10		
Buildings, repairs	295.99		
Furniture and fixtures, Nurses' home	1,383.93		
Office equipment	5.25		
Telephone system	1,438.21		
Heating system	11.03		
Waterworks	1,318.64		
Laundry	50.00		
Dairy (barns and silos)	7,291.59		
Sewer	29.00	14,408.74	
1919—			
Buildings, new	$ 31,617.10		
Buildings, repairs	1,203.93		
Hospital fixtures	4.00		
Transportation and drayage	55.46		
Telephone system	25.79		
Power plant	18.58		
Sewers and disposal plant	12,100.97		
Laundry	1,006.75		
Dairy barns and silos	12,071.43	60,104.01	
1920—			
Buildings, new	$ 119,755.63		
Buildings, repairs	631.84		
Furniture and fixtures, hospital	2,548.78		
Telephone system	914.84		
Refrigeration	1,682.52	125,533.61	
		$227,291.06	227,291.06
Balance unexpended			$ 22,708.94

Balance appropriation unexpended Nov. 30, 1920		$ 22,708.84
Refund from Tucker & Laxton acct. per. imp		364.48
Total		$ 23,073.43
Contracts pending:		
Balance H. F. Hann & Company contract	$ 8,837.49	
Balance L. F. Waldrop contract	3,108.34	
Balance Otis Elevator Company contract	2,725.00	
Balance General Fire Extinguisher Company	3,568.40	
State Architect's Cert. No. 10 unpaid	1,530.00	
State Architect's Cert. No. 14 unpaid	1,530.00	
State Architect's Cert. No. 15 unpaid	1,402.50	
State Architect's Cert. No. 16 unpaid	1,096.00	
H. F. Hann & Co., ceiling left wing attic	420.58	
H. F. Hann & Co., work on dairy barn	73.20	
H. F. Hann & Co., work on Snow Hill cottage	50.79	
Grinnell Company	504.07	
Citizens Lumber Company	450.27	
S. H. Couch & Company	1,000.00	26,296.64
Deficit		$ 3,223.22

MAINTENANCE FUND, 1920.

Appropriation	$ 50,000.00	
Additional allowance	5,000.00	$55,000.00
Disbursements (see Disbursement Sheet)		55,000.00
Maintenance—Patients' Fund:		
Bank of Hoke, overdraft December 1, 1919	$ 2,200.51	
Outstanding vouchers December 1, 1919	13.90	
Vouchers drawn Dec. 1, 1919, to Nov. 30, 1920	93,216.39	
Deposited checks unpaid by bank	71.04	$95,501.84
Deposits Dec. 1, 1919, to Nov. 30, 1920	$ 95,216.37	
Overdraft November 30, 1920	285.47	
Extension Fund:		
Appropriation	$ 15,000.00	
Overdraft	197.50	$15,197.50
Expenditures as per Disbursement Sheet		15,197.50

RECEIPTS AND DISBURSEMENTS

Fiscal Year Ending November 30, 1920.

RECEIPTS

STATE APPROPRIATIONS

	State Fund	Sanatorium Fund	Total
Permanent improvement fund	$130,000.00		
Extension fund	15,000.00		
Maintenance fund	50,000.00		
Extra allowance to cover deficit	5,000.00		
Total Appropriations			$200,000.00

SANATORIUM EARNINGS

Board and treatment of patients	$ 84,351.41		
X-Ray examinations	1,825.00		
Total earnings		$ 86,176.41	

INTERTRADING ACCOUNTS

Sale of automobile	$ 600.00		
Laundry	1,502.79		
Hospital supplies	1,662.99		
Sale of hogs	130.00		
Telephone and telegraph messages	150.77		
Office rent	67.50		
Farm sales	91.11		
Dairy sales	60.00		
Sale of provisions and supplies	3,767.52		
Miscellaneous	129.00		
Total intertrading accounts		8,161.68	
Total Sanatorium receipts			94,338.09

REFUND

Refund—Deposited in Page Trust Company			364.48
Total receipts			$294,702.57

DISBURSEMENTS

PERMANENT IMPROVEMENTS

Buildings, new	$119,755.63	
Buildings, improvements	631.84	
Hospital furniture and fixtures	2,548.78	
Telephone system	914.84	
Refrigeration	1,682.52	
Total		$125,533.61

EXTENSION

	State Fund	Sanatorium Fund	Total
Executive salaries	$ 8,334.89		
Traveling expenses	3,261.32		
Office furniture and fixtures	259.86		
Books and stationery	1,837.36		
Stamps	631.79		
Miscellaneous	872.28		15,197.50
Total permanent improvements and extension			$140,731.11

MAINTENANCE APPROPRIATION DISBURSEMENTS

Salaries, medical	$ 1,467.00	$ 2,904.80	
Executive	580.00	1,326.46	
Nurses and attendants	1,693.09	3,077.47	
Cooks and servants	4,291.67	5,861.90	
Miscellaneous	54.18	351.25	
Totals	$ 8,085.94	$ 13,521.88	21,607.82

SUPPLIES

Bedding and linen	$ 1,662.07	$ 1,436.49	
Crockery and silver	230.63	1,055.92	
Drugs and medicine	1,007.05	1,419.33	
Miscellaneous	1,989.39	2,256.09	
Totals	$ 4,798.14	$ 6,167.83	10,965.97

PROVISIONS

Meats	$ 4,804.94	$ 7,361.50	
Butter	948.48	2,045.76	
Eggs	3,201.10	6,644.71	
Vegetables and fruits	1,156.46	2,123.54	
Groceries	5,874.39	12,236.25	
Miscellaneous	180.32	17.75	
Totals	$ 16,165.69	$ 30,429.51	46,595.20

EQUIPMENT

Furniture and fixtures	$ 485.00	$ 237.14	
Instruments	1.75	326.51	
Miscellaneous	257.52		
Totals	$ 744.27	$ 563.65	1,307.92

OFFICE

Stationery and books	$ 235.57	$ 21.00	
Stamps	151.26	206.80	
Miscellaneous	1.66	1.00	
Equipment		24.67	
Totals	$ 388.49	$ 253.47	641.96

	State Fund	Sanatorium Fund	Total
POWER AND HEAT			
Labor	$ 604.00	$ 1,338.02	
Supplies	3,419.66	9,233.55	
Miscellaneous	8.69		
Totals	$ 4,032.35	$ 10,571.57	$ 14,603.92
LIGHT			
Labor	$ 177.00	$ 331.45	
Supplies	495.13	616.57	
Totals	$ 672.13	$ 948.02	1,620.15
WATER			
Labor	$ 229.70	$ 572.88	
Equipment	590.89	301.05	
Fuel	1,132.36	401.00	
Supplies	234.55	379.00	
Miscellaneous	50.00		
Totals	$ 2,237.50	$ 1,654.83	3,892.33
REFRIGERATION			
Labor	$ 115.00	$ 249.60	
Supplies	301.41	640.76	
Totals	$ 416.41	$ 890.36	1,306.77
PLUMBING AND SEWERS			
Labor	$ 250.95	$ 265.00	
Supplies	42.18	29.82	
Totals	$ 293.13	$ 294.82	587.95
FARM			
Buildings	$ 61.47	$ 54.81	
Live stock	1,004.50	25.25	
Machinery and tools	73.64	873.40	
Seed and fertilizer	244.77	3,642.35	
Feed	1,316.40	989.10	
Labor	1,268.00	5,374.33	
Miscellaneous	76.73	120.53	
Repairs		14.29	
Totals	$ 4,045.51	$ 11,125.06	15,170.57
DAIRY			
Buildings and silos	$	$ 97.90	
Repairs	6.00	36.27	
Live stock	157.85	575.46	
Fixtures	60.74	10.00	
Supplies	201.03	423.52	
Feed	1,554.25	4,799.35	
Labor	529.38	1,112.83	
Insurance		15.00	
Miscellaneous	16.62	15.00	
Totals	$ 2,525.87	$ 7,085.33	9,611.20

MISCELLANEOUS

	State Fund	Sanatorium Fund	Total
Labor	$ 90.60	$ 20.23	
Training school	26.67	33.56	
Messages	240.17	400.20	
Laundry	1,495.90	2,202.09	
Transportation and drayage	4,666.70	3,625.63	
Insurance		162.50	
Refunds	298.89	386.50	
Freight and express	814.99	1,251.93	
Hogs	2,035.50	914.25	
Landscape		35.65	
X-Ray	921.45	622.27	
Furniture and fixtures	3.70	55.25	
Totals	$ 10,594.57	$ 9,710.06	$ 20,304.63
Return checks charged at Bank of Hoke			71.04
Total maintenance disbursements	$ 55,000.00	$ 93,216.39	$148,287.43

FIXED PROPERTIES

NOVEMBER 30, 1920

Real estate and hospital grounds	$ 20,000.00
Administration building	6,100.00
Superintendent's residence	7,150.00
Nurses' home	10,200.00
Assembly hall, dining hall and kitchen	8,500.00
Infirmary	184,684.31
Open-air cottage No. 1	3,700.00
Open-air cottage No. 2	6,731.84
Snow Hill cottage	1,750.00
Physician's Residence	3,500.00
Farm	38,455.64
Dairy buildings	23,726.10
Power, heat, water and lights	51,070.47
Telephone system	3,290.37
Sewer system and disposal plant	11,178.39
Total	$380,039.12

INVENTORIES

NOVEMBER 30, 1920

Farm supplies	$ 1,846.60	
Machinery and equipment	2,810.90	
Live stock	1,875.00	
Total farm		$ 6,532.50
Dairy supplies	$ 2,647.40	
Live stock	18,490.00	
Total dairy		$ 21,137.40

INVENTORIES—*Continued*

Hogs	$ 2,575.00
Furniture and fixtures	17,208.29
Linen and bedding	6,441.40
Crockery and silver	542.40
Drugs and medicine	1,750.00
Hospital supplies and equipment	14,677.05
Provisions	7,145.45
Training school books	198.16
Power, heat, water and lights	2,182.20
Telephones	150.00
Stereopticon outfit	131.00
Library	135.00
Office supplies—business	200.00
Office equipment—business	408.00
Office supplies—extension	1,057.00
Office equipment—extension	3,473.00
Laboratory and medical office equipment	4,439.05
Transportation and drayage equipment	3,650.00
Total	$ 94,032.90

ACCOUNTS PAYABLE

NOVEMBER 30, 1920

State Red Cross Seal Commission (board and treatment soldiers advanced)		$ 3,187.00
State Architect's certificates unpaid:		
Certificate No. 10	$ 1,530.00	
Certificate No. 14	1,530.00	
Certificate No. 15	1,402.50	
Certificate No. 16	545.00	
Certificate No. 17	551.00	
Total		5,558.50
Surgical Selling Company, Atlanta		314.93
S. H. Couch Company, telephone		1,000.00
Carlisle Commission Company, feed		490.98
Virginia Machinery and Well Company, pumping outfit		771.09
J. A. Arey, West Raleigh		2.50
City Telephone Company, Southern Pines		10.60
P. P. McCain, exp. Amer. Sanatorial Assembly		91.35
W. H. McArthur, Aberdeen		5.00
W. I. VanNess Company, Charlotte		8.58
Pound & Moore Company, Charlotte		9.00
Remington Typewriter Company, Raleigh		1.00
Mrs. F. C. Williams, traveling exenses		139.88
Swift & Company, Raleigh		906.46
Armour & Company, Greensboro		487.34
George Marsh Company, Raleigh		751.95
J. T. White Company, Inc., Norfolk		50.65

ACCOUNTS PAYABLE—*Continued*

Lexington Grocery Company, Troy, N. C.	$ 202.48
Kinghan & Company, Norfolk	100.65
Kronenberg X-Ray and Supply Company, Baltimore	177.07
J. M. Thompson Company, Philadelphia	1,144.11
J. E. Covington, Timberland, N. C	33.35
J. S. Maultsby, Timberland, N. C	6.75
Refund board and treatment—Alberta Hollowell	42.00
H. F. Hann & Company, awnings removed	17.60
H. F. Hann & Company, repairs Snow-Hill Cottage	50.70
H. F. Hann, & Company, work on dairy barn	73.20
H. F. Hann & Company, balance contract	8,837.49
H. F. Hann & Company, ceiling left wing Infirmary	420.58
L. F. Waldrop & Company, balance on contract	3,108.34
Otis Elevator Company, balance on contract	2,725.00
General Fire Extinguisher Company, balance on contract	3,568.40
Citizens Lumber Company	450.27
Grinnell Company	504.07
Total	$ 35,248.96

ANNUAL REPORT

OF THE

NORTH CAROLINA TUBERCULOSIS ASSOCIATION

1920

OFFICERS AND BOARD OF DIRECTORS

Mrs. Gordon Finger, *President*, Charlotte, N. C.

Mrs. Charles R. Whitaker, *Vice-President*, Hendersonville, N. C.

Dr. L. B. McBrayer, *Executive Secretary*, Sanatorium, N. C.

Dr. Otho B. Ross, Charlotte, N. C.

Mrs. Cuthbert Martin, Wilmington, N. C.

Mrs. T. D. Jones, Durham, N. C.

Mrs. C. C. Hook, Charlotte, N. C.

Dr. W. L. Dunn, Asheville, N. C.

Col. J. L. Ludlow, Winston-Salem, N. C.

Mrs. Mark Quinnerly, Greenville, N. C.

Mrs. S. H. Brown, Oxford, N. C.

Mrs. J. L. Wetmore, Arden, N. C.

Mr. Hamilton C. Jones, Charlotte, N. C.

Mrs. R. C. Warren, Gastonia, N. C.

Mrs W. N. Hutt, Candor, N. C.

Dr. Chas. L. Minor, Asheville, N. C.

A. W. Snow, *Assistant Secretary*

ANNUAL REPORT
NORTH CAROLINA TUBERCULOSIS ASSOCIATION
1920

We desire to direct attention to the Annual Report of the North Carolina Tuberculosis Association. This is a volunteer association, and is financed wholly by the annual sale of Tuberculosis Christmas Seals. While it has no connection whatever in fact with the Division of Tuberculosis of the State Board of Health, yet its aims and purposes are largely the same, and the absence of overlapping and the close coöperation with tuberculosis work of every kind in the State make it a most valuable asset in the fight against tuberculosis in North Carolina. In fact, but for the coöperation of this Association the appropriation to the Division of Tuberculosis would have been totally and wholly inadequate in keeping pace with the advance of tuberculosis work in our State.

We are in position today to use to great advantage 100% more money than is in hand from both the State appropriation and the State Tuberculosis Association.

Let us mention one or two items of work done by the State Tuberculosis Association: The Tuberculosis Clinic conducted by Dr. J. L. Spruill has examined 1,419 people, of whom 25% were positive for tuberculosis. It has aroused the interest of the people in tuberculosis to such an extent that we expect to have more than one county Tuberculosis Hospital in the near future.

The Moving Picture Car for negroes has carried the moving picture theatre to the negroes in rural districts, spending one week in each of fifty counties, and 42,861 people have seen the pictures. Films on Health, Civics, Agriculture, and other subjects of value have been presented, and usually there is shown each evening a comic picture, bringing out rollicking fun.

We desire to direct your earnest attention to the detailed report herewith.

In submitting report of the 1920 seal sale your Executive Secretary advises that the following local chairmen have not made report of sale, and the amounts due from these towns are, therefore, not included in this report; Mrs. P. W. Vaughn, Durham; Mr. E. F. Redding, Lucama; Dr. E. G. McMillan, Maxton; Mr. T. F. Limrick, Monroe; Mr. Alex H. White, Polloksville; Mrs. W. W. Williams, Rocky Mount;

Mr. L. A. McGeachey, St. Pauls; Dr. B. H. Palmer, Shelby; Mr. G. G. Nichols, Sparta; Miss Elizabeth Garden, Spray; Mrs. J. W. Manning, Williamston.

According to the sale of seals last year we are due to receive a total of $2,143.84 from these eleven towns, of which amount $535.96 will be due the Executive office. A report of this amount is made under schedule "q" and will be referred to later.

It will be noted that the amount raised in the seal sale of 1919 exceeded this year's sale by approximately $3,500.00, but it must be borne in mind that the financial condition of the country was vastly different in 1919 to what obtained in 1920. The outlook for an increase in the sale was bright until November, at which time the cotton mills and other industries began closing down, thereby creating a depression in the employment of labor, with its accompanying shortage of money.

These conditions did not obtain in Greensboro, Winston-Salem, Charlotte, Wilmington, Asheville, or towns of like size, but it will be remembered that North Carolina has numerous towns with a population ranging from 1,500 to 7,000, a large number of which are "cotton mill towns." It was therefore in these smaller towns that the financial depression was felt worst and was reflected in a much smaller sale of seals than in previous years.

It will also be remembered that the purchasing power of the dollar was depreciated in 1919 to about 50% of its normal power. This condition is improving, and we believe as much or more work can be accomplished this year with the receipts realized as was done last year.

Much credit is due the chairmen and committees in the larger towns above mentioned for the success of the sale this year. The harmonious organization in these towns was wonderful; add to this the interest of these workers in the health of their citizens and the determination to raise sufficient funds that the tuberculosis work may not suffer, and we begin to understand to some extent the success which attended their efforts, all the larger towns mentioned showing increased sales over 1919.

The colored seal sale chairmen working in 42 counties exceeded the amount raised last year by a few hundred dollars.

We had intimated that $8,500 would be required to operate two traveling moving picture outfits this year, and prepared budgets for the chairmen on this basis. You will notice the net receipts were $3,000 less. But again when we realize that the amount raised by the colored people of 42 counties, most of which was raised in the rural sections, exceeds by 6c the total seal sale in North Carolina for 1913, we feel like saying, "Well done, thou good and faithful servant."

The mail sale was not used as extensively this year as last. There was a total of 12,500 mail sale letters containing 100 seals and 1,200 letters containing 500 seals sent. It will be noticed that the cash returns received from this number was approximately 33%, calculated on the basis of $1.00 per letter, which is the same in proportion as the cash return of last year.

Before taking up the analysis of receipts and expenditures for the fiscal year it would be well to consider the policies and plans of the National Association for the coming year.

At the conference of Tuberculosis Executives at Chicago, January 5-6-7, it was voted that the official date for the seal sale be from November 25th to December 25th. (Thanksgiving to Christmas.)

It was voted that the sale of Health Bonds be continued, but that they be smaller in size. The seal design is to include Santa Claus, the child and the double-barred cross.

It was decided that State Associations purchase supplies from the National Association on the same general plan as last year, providing for payment on July 1st, August 1st, and September 1st.

It was the sentiment of the Secretaries present that the percentage of the seal sale proceeds to be paid to the National Association shall remain at 5% of the gross receipts.

Dr. Hatfield stated that one Director of the National Association is to be named by each affiliated and represented association, and that the selection of this director be made at the annual meeting of such association.

In defining the meaning of "affiliated and represented associations" the National Association states that they must maintain the following qualifications:

1. They shall not be under the direction or control of any state or local governmental agency.
2. Such association must have:
   (a) A membership which has representation and participation in its affairs.
   (b) A president and other officers, an executive committee, a salaried executive or similar officer, and a board of directors representative of the territory covered by the association.
   (c) The membership must meet at least once a year; the board of directors or executive committee must meet at least four times a year.
   (d) The association must operate under a constitution and by-laws, with an annual program and budget.
   (e) The accounts must be audited by a certified public accountant or his equivalent at least once a year and a copy filed with the National Association.

(f) An annual report of accomplishments, receipts and expenditures shall be prepared and made available to officers, members and the public and given all possible publicity.

(g) All associations shall comply with and carry out the aims and objects of the National Association, submitting such reports as may be required by the Association, and must accept the responsibility of working out and sharing with the National Association means of financing their mutual activities.

It is further proposed that the Executive Committee of the National Association shall be the sole judge of the foregoing qualifications for affiliated and represented associations, and of their right to membership and representation on the Board of Directors of the National Association.

At present the affiliated and represented associations consist of the State Tuberculosis Associations and five local city associations. Thus it will be seen that the State Associations will have representation on the Board of Directors of the National Association to the extent of 53 members. These directors may not be elected for a period of more than two years and are not eligible unless they are directors of the State or local organization.

Your Executive Secretary recommends that the qualifications mentioned be submitted to the chairmen of our local organizations in order that they may organize associations to conform to these requirements if they so desire.

On December 28, 1920, the National Association advised your Executive Secretary that they had registered the double-barred cross as the trade-mark of the National Tuberculosis Association and that its use would not be permitted by "affiliated and representative associations," unless all matter bearing the trade-mark was first submitted to the National Association for approval. In this connection it will be remembered that the "North Carolina Anti-Tuberculosis Association," which is the parent of our present association, was organized in 1904 and has at all times used and endeavored to popularize the use of the double-barred cross; and that the National Association was not organized until the same year, and therefore has no priority of right in the use of the double-barred cross. Your Executive Secretary further submits that it is not feasible to submit material to the National Association before publication; that to do so will occasion delays in our work that will be exceedingly harmful; that it will defeat the purpose of having an emblem to distinguish tuberculosis work in that its use will be so restricted that it will appear on pamphlets and publications only at rare intervals. Your Executive Secretary believes that the use of the double-barred cross should be so restricted as to pre-

vent its use by unauthorized persons or organizations, but believes that the state and local organizations should be given full authority for its use on all matters approved by said Association. This matter is under consideration by the National Association Directors at this time.

The Executive Office is confident that through the use of the double-barred cross and the publicity given the work of the North Carolina Tuberculosis Association during the past year that the Association has gained wonderfully in prestige and that its work is better known and approved in the State today than ever before. A great deal of credit for this is due the local associations that during the past year placed their work before the public by means of the press and publications. The favorable opinion created and the popularization of the cross will be much curtailed if the policy of the National Association in this respect is pursued. In this connection it is proper to say that the publicity given the tuberculosis work in general and the seal sale in particular by the newspapers of Winston-Salem is worthy of special mention, as is the work of Dr. R. L. Carlton, who made it possible.

By referring to the analysis of expenditures under schedule (a) it will be seen that the campaign expenses for the year totaled $5,937.62, for which an appropriation of $3,000.00 was made. Included in this amount, however, is $1,319.60 paid the National Association for seal supplies. Formerly, these supplies were furnished free, the State Association, however, was required to pay 10.7% of the gross receipts to the National Association, which amount was reduced to 5% and the local associations required to pay for all supplies ordered. The State Association shows a saving of $500.00 by this arrangement.

The cost of postage stamps was also a large item in these expenses, a total of $900.00 being required. Of course a large proportion of this was used on the mail sale letters, it being required that we enclose a stamped, self-addressed envelope for return of remittance, with all seals sent out.

The subscription blanks as recommended for last year were secured at a cost of $171.00, and were, we believe, productive of good results in increasing the sale of seals and bonds.

The salaries for the entire office force used during the three months of the campaign are included under this heading and aggregate a total of $1,842.09 for the 8 employees used.

Under schedule (b) a part of the appropriation was used for the purchase of a dairy wagon. This appropriation is a balance carried over from 1919, as it was thought wise to let it continue until the dairy plant was completed. We are pleased to report that the dairy bottling plant is now modern in every respect and that the Sanatorium appreciates greatly the assistance given by the Association in this respect.

(c) You will notice a total of $5,558.50 has been expended under the loan appropriation to build a workshop to be used for occupational therapy and a garage building. Without this loan it would not have been possible for the Sanatorium to have erected this building until the latter part of this year or possibly next year. We will then have had the use of the building two years earlier than would have been the case without this loan. The Sanatorium expects to repay this loan during the present year and cognizance is taken of this in figuring the assets of the Association for the year.

The building has made possible a wide range of vocational work that is important in keeping the ambulatory patients contented and has also enabled the patients to make salable articles and thus contribute toward expense of treatment. The shop is equipped by the Federal Board for Vocational Education with a great many modern appliances that enable the patients to manufacture articles that would otherwise be impossible for them to do. The shop is used by discharged soldiers and civilian patients alike.

(d) The appropriation for a consultant clinic physician has been a distinct addition to our work this year. The work was begun on May 1, 1920, with Dr. J. L. Spruill as clinic physician, and is steadily growing in popularity. We have been forced to make engagements several months in advance in order to take care of the numerous requests for this service. At this time engagements have been made up until July. During the ten months the clinic has been in operation a total of 1,419 examinations for tuberculosis have been made. Addresses on the nature, care and prevention of tuberculosis have been made by Dr. Spruill at 43 places to a total audience of 8,446. This work has been instrumental in interesting towns and counties in the tuberculosis problem to the extent of securing a pavilion addition for the treatment of tuberculosis to a general hospital; for the ordering of an election to vote bonds for the purpose of erecting a county sanatorium; for interesting local units in providing public health nurses, and for interesting corporations in providing better care for employees.

(e) A loan of $200.00 was made under this appropriation to Miss Alice B. Casey to complete the course in public health nursing. Immediately upon completing this course Miss Casey accepted the position as County Public Health Nurse of Robeson County. Owing to the shortage of Red Cross funds in this county Miss Casey has since been transferred to Davidson County. This amount makes a total of $300.00 loaned Miss Casey and is payable to the Association, without interest, during the two-year period following completion of the course. This account is carried in the assets under schedule (q).

(f) No expenditures were made under the appropriation to pay for board and treatment for discharged soldiers, as the Government is now paying these bills promptly.

(g) $225.00 was used under the colored public health nursing appropriation to pay the salary of Blanche Hayes, a colored registered nurse attached to the Health Department of Edgecombe County, immediately under the direction and instruction of Miss Clara Ross, Public Health Nurse for Edgecombe County, for a period of three months. This enabled the Health Department to provide visiting nursing service for the colored patients during the influenza epidemic of last year. Financing this work was of a temporary nature and was done to demonstrate the usefulness of colored public health nursing and aid the county until funds could be secured to continue the work. Blanche Hayes is now on the staff of the Charlotte Health Department.

(h) The appropriation for additional X-ray equipment has not been used. At the last annual meeting it was recommended that this appropriation be continued, as the Sanatorium would need some additional X-ray equipment as soon as the new infirmary and office building were completed. We had expected the building to be finished before the expiration of the fiscal year, but such was not the case, and we ask that this appropriation be continued for another year.

(i) Not used.

(j) The appropriation for the moving picture car to be used among colored people was sufficient to purchase and equip the car and make the circuit of all counties participating in the sale of tuberculosis seals. This schedule was completed in December and upon examination of the truck used we found that it would not be possible to use the same truck without extensive overhauling. As it was not desired to interrupt this service, that was proving of such help in educating the colored people in regard to tuberculosis, it was decided, upon the sanction of the President, to purchase an entire new equipment and operate both cars during the coming year.

The new car is now in operation and repairs on the old car have been completed with the exception of repainting, which can be done in a few days. We have been unsuccessful in securing a properly qualified man to operate this car. We have not, however, pushed the matter, as it is estimated that it will require at least $8,500.00 to keep both of the cars in operation for the entire year, and your Secretary concluded this was a larger amount than you would deem advisable to spend in this branch of the work during 1921. Since the car was put in operation on March 15, 1920, it has visited 50 counties, staying one week in each county, and has shown and explained health educational pictures to a total audience of 42,861. In addition to exhibiting the pictures, Dr. Ransom, the operator, has visited over 1,500 families

in their homes, teaching the principles of good health and aiding the members in many other ways.

(k) The appropriation of $2,000.00 for health work among the negroes was insufficient to carry out the program for the year and fulfill our contract for the year with other agencies coöperating. This appropriation was used to pay one month's salary for 41 colored supervising teachers. By coöperating with the State Agent of Rural Colored Schools we were enabled to secure approximately one-sixth of the working time of these supervisors. We have made use of this time by having the supervisors instruct the colored people of their county along general health lines with especial reference to tuberculosis. During the year these supervisors have reached 311,005 by word of mouth; distributed health educational literature to many thousands more; given illustrated lantern slide lectures to 15,000; raised $5,253.13 in the seal sale and established the Modern Health Crusade in a number of colored schools in each county, enrolling a total of 16,500 crusaders since September, 1920. You will be interested to know that the deaths from tuberculosis among the negroes have declined 21.4% in the last two years, according to reports of deaths sent the Bureau of Tuberculosis. There are 1,791 deaths recorded in 1918 against 1,407 in 1920.

(l) Self-explanatory.

(m) The major portion of the appropriation for moving picture films was not used, as plans for photographing the pictures desired have not been completed. We did, however, purchase three 1,000-feet films from the National Association and have made use of these films on the moving picture car and as a loan to any party that could secure an exhibition of the films in either theater or school. The films have been exhibited in the latter manner 14 times to an audience of 1,700.

It is hoped the Association will continue this appropriation to be used in the manner hereinafter explained.

(n) The Modern Health Crusade has been enthusiastically received this year. A total of 40,224 crusaders have been enrolled since September, 1920. It will be noticed that $989.65 of this appropriation has been used. Of this amount $465.64 has been recovered by the sale of supplies, and there is due the Association at this time $259.45, which makes a cost of $264.56 to the Association for conducting the Crusade. This difference in receipts and expenditures is accounted for by the Association furnishing supplies to the colored schools at one-half cost. This was necessary, as it was found that the colored schools could not raise the funds to pay the entire cost of crusade supplies without financial assistance. There are also a large number of sample copies of supplies sent out without charge. An item for mailing supplies to the amount of $40.00 is also included in expenditures.

We are hoping to simplify the Crusade somewhat this year in order to overcome the objection of some school authorities and thus obtain more universal adoption. The Crusade is filling an important place in teaching health rules to the school children by performance, and we strongly recommend its continuance.

(o) Self-explanatory.

(p) The miscellaneous expenditures under this schedule are all self-explanatory. We have endeavored to keep the miscellaneous expenditures within the appropriation allowed, but find the amount was inadequate, as we were forced to pay bills from this account not especially appropriated for.

(q) From this schedule it will be seen that the possible assets for this coming year total the net amount of $22,384.79, of which amount $14,380.27 is on deposit at the Merchants and Farmers Bank at Aberdeen, N. C., as shown by certificate from bank attached hereto. It will be noted that the certificate from the bank shows a balance of $14,452.02. The difference is accounted for in the financial statement in outstanding checks.

A total of $8,745.50 is due the Association by the Sanatorium account of loans to cover bills for board and treatment of discharged tuberculous soldiers and for the erection of the building for occupational therapy. It is expected that this amount will be paid during the year.

We are attaching hereto a budget carrying recommendation for expenditures somewhat in excess of the total of our net assets, and ask that this budget be adopted and the Executive Committee authorized to carry out the recommendation in so far as is possible with the funds available.

BUDGET OF NORTH CAROLINA TUBERCULOSIS ASSOCIATION

For the fiscal year ending February 28, 1922

Publicity Director	$ 1,800.00
Publication of Bulletin	3,000.00
Campaign expenses (seal sale)	5,000.00
Clinic Physician, salary $3,500, expenses $1,500	5,000.00
Clinic Physician, for examination of school children	5,000.00
Scholarship public health nurse	500.00
Additional X-ray equipment	650.00
Negro moving picture service	5,000.00
Negro health work	3,000.00
Expense executive committee meeting	500.00
Movie films	1,000.00
Research work at Sanatorium	2,000.00
Modern Health Crusade	1,000.00
Miscellaneous expense	3,000.00
Total	$ 36,450.00

The National Association advise that they will not send any regular press material to the local papers this year, and recommend that each state employ a Director of Publicity. We heartily concur in this recommendation and call attention to the fact that the Publicity Director would be used not only to secure publicity for the seal sale, but would be expected to issue a monthly or bi-monthly bulletin of an educational character. The Publicity Director would also be expected to assist in the preparation of special bulletins and be available for consultation service to local associations. It is recommended that the tuberculosis diagnostic clinic be continued and that in addition the Executive Committee be empowered to employ an additional clinic physician for the examination of school children during the school term and to be used at local clinics when the school term is over.

It is desired to prepare a moving picture film of local interest in which we can bring before the people of North Carolina health educational matter in an interesting manner. We have received bids for preparing a film along the lines desired at a cost of 45c per foot. The expense of the photographer to be in addition.

For some time we have felt the need that more research work looking to the care and prevention of tuberculosis should be done. We realize that the Sanatorium presents an unequaled opportunity for making studies that should not be neglected. There is much research work in tuberculosis that can be done in no other place, and we are anxious that the North Carolina Tuberculosis Association shall be among the first of the associations to adopt a progressive policy along this line.

That there is a need for such work is plainly evident when we make a survey of the tuberculosis situation in North Carolina. The population of the State, based on the 1920 census, is given at 2,556,486. Based on the most reliable estimates and from information on file there are known to be 25,000 of this number who are ill with tuberculosis and in need of treatment. This does not take into consideration the large number of inactive, cured, and cases not sufficiently advanced to be generally diagnosed. From statistics received to date 2,763 deaths were recorded. This number, we are glad to say, is a considerable reduction over previous years, the highest recorded number of deaths having occurred in 1913, at which time 4,800 were reported as due to tuberculosis. It will be remembered, also, that this reduction was made during the time an increase in population of 350,000 was made. If we can make these large gains in the fight against tuberculosis almost exclusively by educational methods, how much more we can hope to accomplish when the veil that shrouds the method to be used in the cure and prevention of tuberculosis is fully

removed. Our part is to do what we can to bring the light of knowledge on some of these dark points, and to this end we respectfully recommend the appropriation of $2,000.00 for this purpose.

The other appropriations recommended are for continuing work already under way of which the Directors are familiar.

Your Executive Secretary believes the membership of the Board of Directors should be increased in order that fuller representation may be secured. The Directorate at this time is represented by the following cities: Charlotte, Hendersonville, Wilmington, Candor, Durham, Asheville, Winston-Salem, Greenville, Oxford, Arden, and Gastonia. There should be a Director elected from Greensboro, one from Goldsboro, and one additional from Winston-Salem and such other towns as deemed advisable. It is further recommended that the local associations pay expenses of their Director to the State Association.

All of which is respectfully submitted.

L. B. McBrayer,
Executive Secretary.

REPORT OF AUDIT

Raleigh, N. C., March 31st, 1921.

North Carolina Tuberculosis Association,
Sanatorium, N. C.

Gentlemen :—

In accordance with your instruction I have audited the books and accounts of Dr. L. B. McBrayer, Secretary, and respectfully submit the following report as a result of said audit.

I find the books accurately and systematically kept and I had no difficulty in securing the information desired.

I desire to extend congratulations on the great showing that you have made.

Respectfully submitted,

J. J. Bernard,
Certified Public Accountant.

NORTH CAROLINA TUBERCULOSIS ASSOCIATION

REPORT 1920 SEAL SALE

Total value seals sold	$ 35,338.38	
Total value bonds sold	1,390.00	
Total value all paper sold		$ 36,728.38
Sold by local chairmen	$ 27,337.97	
Sold by colored chairmen	5,253.13	
Sold by mail sale	4,137.28	
Value seals sold		36,728.38
Kept by local chairmen		18,665.57
		$ 18,062.81
Receipts local chairmen	$ 8,672.40	
Receipts colored chairmen	5,253.13	
Receipts mail sale	4,137.28	18,062.81
Receipts Executive office		18,062.81
Expenses:		
Seal supplies, stationery, literature	$ 3,046.17	
Salaries, wages	1,916.09	
Postage and express	900.00	
All other expense	75.36	
	$ 5,937.62	
5% due National Association	1,836.42	Exp. 7,774.04
Net receipts Executive office		$ 10,288.77

Receipts 1913	$ 5,253.07	Receipts Ex. Office	$1,613.22	Ex.	$ 696.84
" 1914	6,745.22	" " "	2,160.05	"	1,235.72
" 1915	8,033.86	" " "	2,636.01	"	1,590.43
" 1916	12,078.74	" " "	4,786.33	"	2,750.56
" 1917	17,541.02	" " "	8,036.43	"	3,311.87
" 1919	42,407.18	" " "	23,408.53	"	8,528.18
" 1920	36,728.38	" " "	18,062.81	"	7,774.04

FINANCIAL STATEMENT FOR THE FISCAL YEAR ENDING FEBRUARY 28, 1921

Receipts

Balance on hand from 1920 as per report submitted at Annual Meeting of State Red Cross Seal Commission Feb. 28, 1920	$ 6,949.60
From sale of Crusade supplies	465.64
Receipts colored chairmen	5,253.13
Receipts white chairmen	8,672.40
Receipts mail sale	4,137.28
Donations	176.00
Transferred from savings to checking account	18,607.95
Interest on above	837.32
Total receipts	$ 45,099.32

Total receipts		$ 45,099.32

DISBURSEMENTS

Campaign expenses	$ 5,937.62	
Dairy equipment	273.35	
Loan, Bldg. Occupational Therapy	5,558.50	
Clinic Physician	2,964.18	
Scholarship Public Health Nurse	200.00	
Negro Public Health Nursing	225.00	
Negro moving picture car	8,070.98	
Negro health work	3,104.92	
Expense directors' meeting	69.99	
Movie films	282.37	
Savings account	10,000.00	
Modern health crusade	989.65	
Miscellaneous	3,042.49	40,719.05
Balance March 1. 1921		4,380.27
Checks outstanding No. 631	13.00	
Checks outstanding No. 633	58.75	71.75
Balance at the Merchants and Farmers Bank, Mar. 1, 1921		$ 4,452.02

ANALYSIS OF EXPENDITURES AND RECEIPTS

(a)

Appropriation account of campaign expenses		$ 3,000.00
1920		
Feb. 9	National Asso., ¼ cost seals and supplies	$ 328.27
Aug. 28	Commercial Printing Co., index cards	107.81
	National Asso., ½ cost seals and supplies	661.75
Sept. 1	Stamps	25.00
	National Asso., ¼ cost seals and supplies	329.58
	National Association cuts	3.67
Sept. 3	Commerciol Ptg. Co., subscription blanks	171.00
Sept. 15	L. Lindley, September salary	28.00
Sept. 16	Stamps	50.00
Sept. 17	L. Thorpe, September salary	100.00
	Pilgr'm Spec. Company, bangles	187.75
Sept. 28	Stamps	200.00
Oct. 1	A. W. Snow, September salary	125.00
	Grady Ingle, September salary	70.00
	L. Bouldin, September salary	50.00
	L. Mayhew, September salary	45.00
	L. Redd, September salary	56.40
	O. B. Revell, September salary	25.00
Oct. 4	Storr, Heath & Moore, stationery and env.	483.14
	Hackney, Moale & Co., stuffers	148.90
	Sibyl Brabble, September salary	5.32
Oct. 7	Stamps	225.00
Oct. 8	I. A. Taylor, wrapping paper	26.70
	N. Williams, school teacher's list	1.50
Oct. 11	Atlas Educational Film Co., trailers	12.00
Oct. 22	Stamps	50.00
Nov. 1	A. W. Snow, October salary	125.00
	Grady Ingle, October salary	70.00
	L. Bouldin, October salary	50.00
	L. Mayhew, October salary	50.00
	S. Brabble, October salary	40.00
	L. Redd, October salary	32.62
	Mrs. J. L. Spruill, October salary	35.85
	Stamps	50.00

Nov. 3	Hackney, Moale & Co., post cards.....	$ 282.50	
Nov. 4	W. U. T. Co., October account.....	35.16	
Nov. 8	O. B. Revell, October salary.....	70.00	
	Victor Animatograph Co., slides.....	112.10	
Nov. 15	Stamps	50.00	
Nov. 22	Stamps	100.00	
	National Association, electros.....	1.00	
Nov. 30	Mrs. J. L. Spruill, November salary.....	54.60	
Dec. 7	National Association, bangles.....	58.81	
	Stamps	50.00	
Dec. 13	Victor Animatograph Co., slides.....	15.29	
Dec. 28	Stamps	75.00	
1921			
Jan. 1	A. W. Snow, December salary.....	125.00	
	O. B. Revell, December salary.....	70.00	
	M. L. Duncan, December salary.....	107.60	
	L. Bouldin, December salary.....	50.00	
	L. Mayhew, December salary.....	50.00	
	S. Brabble, December salary.....	40.00	
Jan. 1	National Asso., mats, plates and bangles	146.33	
Jan. 13	National Asso., mats and plates.....	8.27	
	Mrs. J. L. Spruill, December salary.....	49.80	
Jan. 21	Stamps	25.00	
Feb. 1	Mrs. J. L. Spruill, January salary.....	45.90	
	A. W. Snow, January salary.....	125.00	
	O. B. Revell, January salary.....	70.00	
	L. Bouldin, January salary.....	60.00	
	L. Mayhew, January salary.....	50.00	
	Sybil Brabble, January salary.....	40.00	
			$ 5,937.62
Excess appropriation used.....			$ 2,937.62

(b)

Appropriation Account Dairy Equipment.....			$ 647.50
1920			
Mar. 18	Hackney Bros., wagon.....	$ 273.35	
	Balance appropriation.....	374.15	
		$ 647.50	$ 647.50
Unused balance		$ 374.15	

(c)

Appropriation account loan to N. C. Sanatorium for Occupational Therapy building.....			$ 7,000.00
1920			
Mar. 18	Harry F. Hann & Company.....	$ 1,530.00	
April 10	Harry F. Hann & Company.....	1,530.00	
May 5	Harry F. Hann & Company.....	1,402.50	
June 5	Harry F. Hann & Company.....	545.00	
June 17	Harry F. Hann & Company.....	551.00	
	Balance appropriation	1,441.50	
		$ 7,000.00	7,000.00
Unused balance		$ 1,441.50	

(d)

Appropriation Account Clinic Physician:
Salary, $3,500; traveling expenses, $1,500; total..... $ 5,000.00

1920			
May 1	J. L. Spruill, salary April.....	$ 112.50	
May 18	J. E. Crayton, Physician's bag.....	17.50	
May 20	J. L. Spruill, expense April.....	43.80	
May 20	J. L. Spruill, expense May.....	50.00	
	J. L. Spruill, part salary May.....	80.00	
June 1	J. L. Spruill, part salary and exp. May..	80.97	
July 1	Board for family.....	80.00	
	J. L. Spruill, salary June.....	150.00	
July 5	J. L. Spruill, expense June.....	96.35	
Aug. 2	J. L. Spruill, salary July.....	110.00	
	Commercial Printing Co., posters.....	5.10	
	Board family July.....	100.00	
Aug. 6	J. L. Spruill, expense July.....	80.17	
Sept. 1	J. L. Spruill, salary and exp. August....	230.38	
	Board family August and September.....	226.66	
Oct. 1	J. L. Spruill, salary September.....	83.34	
	J. L. Spruill, expense September.....	70.20	
	J. L. Spruill, expense Jacksonville meet.	69.25	
Nov. 1	J. L. Spruill, salary October.....	150.00	
	Board family October.....	80.00	
Nov. 30	J. L. Spruill, expense December.....	64.24	
	Board family November.....	80.00	
Dec. 2	J. L. Spruill, expense November.....	130.07	
Dec. 20	J. L. Spruill, salary and part exp. Nov....	158.01	
	J. L. Spruill, expense December.....	25.00	
1921			
Jan. 1	J. L. Spruill, salary December.....	150.00	
	Board family December.....	80.00	
Feb. 1	J. L. Spruill, salary January.....	150.00	
	Board family January.....	80.00	
Feb. 7	J. L. Spruill, expenses January.....	71.89	
Feb. 22	J. L. Spruill, expenses February.....	58.75	
	Balance appropriation	2,035.82	
		$ 5,000.00	5,000.00
	Unused balance	$ 2,035.82	

(e)

Appropriation Account scholarship for public health nursing... $ 1,000.00

1920			
Mar. 27	Miss Alice B. Casey.....	$ 100.00	
May 20	Miss Alice B. Casey.....	100.00	
	Balance appropriation.....	800.00	
		$ 1,000.00	1,000.00
	Unused balance	$ 800.00	

(f)

Appropriation to be used as revolving fund in payment of board and treatment for discharged tuberculous soldiers..... $ 2,500.00

Not used. Balance appropriation	$ 2,500.00	
	$ 2,500.00	$ 2,500.00
Unused appropriation	$ 2,500.00	

(g)

Appropriation account, public health nursing, colored			$ 1,000.00
1920			
Mar. 27	Miss Blanche Hayes, Tarboro	$ 75.00	
April 12	Miss Blanche Hayes, Tarboro	75.00	
May 1	Miss Blanche Hayes, Tarboro	75.00	
	Balance appropriation	775.00	
		$ 1,000.00	1,000.00
Unused balance		$ 775.00	

(h)

Appropriation for additional X-Ray equipment at Sanatorium			$ 650.00
Not used. Balance appropriation		$ 650.00	
		$ 650.00	650.00
Unused appropriation		$ 650.00	

(i)

Appropriation to assist towns in establishing Public Health Nursing			$ 1,000.00
Not used. Balance appropriation		$ 1,000.00	
		$ 1,000.00	1,000.00
Unused appropriation		$ 1,000.00	

(j)

Appropriation account moving picture car for negroes			$ 5,000.00
1920			
Mar. 20	C. W. Hyde, work on car	$ 8.45	
April 2	Commercial Printing Co., posters	33.50	
April 10	E. T. Ranson, salary and exp. March	145.25	
May 17	E. T. Ranson, salary and exp. April	202.03	
June 19	E. T. Ranson, salary and exp. May	222.21	
June 23	Atlas Educational Film Co., trailers	23.53	
June 25	J. Bryan Grimes, license	12.50	
July 9	E. T. Ranson, salary and exp. June	319.16	
July 12	State Board of Education, equipment	2,301.15	
Aug. 28	E. T. Ranson, salary and exp. July	346.67	
Sept. 16	E. T. Ranson, salary and exp. August	220.77	
Sept. 17	W. P. Crosby, lamp	13.00	
Sept. 22	O. B. Revell, exp. Edgecombe County	52.80	
Nov. 3	E. T. Ranson, salary and exp. September	223.76	
Nov. 20	E. T. Ranson, salary and exp. October	387.77	
Nov. 30	E. T. Ranson, salary and exp. November	217.08	
1921			
Jan. 7	E. T. Ranson, salary and exp. December	325.66	
Jan. 13	A. W. Snow, exp. to Raleigh	13.16	
	Soper & Kaylor, repair Dodge	81.90	
	Soper & Kaylor, Dodge frame	100.00	
Jan. 15	Bureau Community Service, equipment	2,284.00	
Jan. 29	State Board of Education, tires	97.02	
Feb. 9	State Bd. Education, rep. movie machine	7.75	
Feb. 17	E. T. Ranson, salary and exp. January	188.30	
Feb. 21	Soper & Kaylor, repair Dodge	230.56	
	State Board of Education, lamp	13.00	8,070.98
	Excess appropriation used		$ 3,070.98

(k)

Appropriation for negro health work			$ 2,000.00
1920			
Mar. 5	Maggie Hester, salary	$ 18.00	
	Carrie Battle, salary	10.00	
	S. J. Martin, salary	10.00	
	Laura J. A. King, salary	10.00	
April 14	M. C. Faulkner, salary	10.00	
May 20	B. M. Vincent, salary	60.00	
	S. J. Wilson, salary	60.00	
	E. J. Jones, salary	60.00	
	Rachel Luten, salary	60.00	
	Pearl Alston, salary	80.00	
	L. B. Felton, salary	75.00	
	E. N. Johnson, salary	70.00	
	Annie E. Chesnutt, salary	65.00	
	Mary Sutton, salary	70.00	
	J. P. Murfree, salary	60.00	
	Mattie N. Daye, salary	70.00	
	C. W. McNeill, salary	75.00	
	M. C. Faulkner, salary	90.00	
	Maude M. Mitchell, salary	60.00	
	Carrie Battle, salary	70.00	
	Dollye B. Patterson, salary	70.00	
	S. J. Martin, salary	70.00	
	E. E. Haywood, salary	60.00	
	Maggie Hester, salary	60.00	
	M. A. C. Halliday, salary	60.00	
	Laura J. A. King, salary	85.00	
	M. J. Satterwhite, salary	70.00	
	F. O. Butler, salary	80.00	
	S. W. Randolph, salary	65.00	
	Sarah J. McRae, salary	60.00	
	Pearl E. Hoover, salary	70.00	
	S. L. Smith, salary	70.00	
	S. P. Wimberley, salary	70.00	
	S. A. Wilson, salary	60.00	
	Sadie P. Harris, salary	60.00	
	E. M. Thompson, salary	70.00	
	Jennie L. Hill, salary	70.00	
	R. J. Hargrave, salary	80.00	
	J. I. Kornegay, salary	75.00	
	Willa H. Berry, salary	80.00	
	L. B. Yancey, salary	100.00	
	Mary Garner, salary	90.00	
June 1	Laura J. A. King, salary	5.00	
	Sadie P. Harris, salary	10.00	
	M. M. Mitchell, salary	85.00	
	S. L. Smith, salary	5.00	
	S. W. Randolph, salary	15.00	
	G. R. Whitfield, salary	90.00	
June 25	Sarah McRae, salary	10.00	
June 28	M. O. Taylor, salary	75.00	
July 9	Marie McIver, salary	60.00	
July 17	M. O. Taylor, salary	19.92	
July 28	Maggie Hester, salary	10.00	
Nov. 8	Hampton Normal Inst. Reprint	62.00	$ 3,104.92
	Excess appropriation used		$ 1,104.92

(l)

Appropriation Account Expense Directors' meeting..... $ 1,000.00

1920			
Mar. 18	Mrs. Charles R. Whitaker.....	$ 69.99	
	Balance appropriation.....	930.01	
		$ 1,000.00	1,000.00
	Unused balance	$ 930.01	

(m)

Appropriation for purchase of moving picture films..... $ 1,250.00

1920			
April 8	National Tuberculosis Asso. Jinks.....	$ 100.00	
July 1	National Tuberculosis Asso. Jinks.....	103.64	
Dec. 7	National Tuberculosis Asso. Crusade.....	78.73	
	Balance appropriation.....	967.63	
		$ 1,250.00	1,250.00
	Unused balance	$ 967.63	

(n)

Appropriation Account Modern Health Crusade..... $ 1,000.00

1920			
April 8	National Association supplies.....	$ 95.11	
May 1	National Association supplies.....	20.00	
Aug. 2	National Association supplies.....	68.35	
Oct. 25	National Association supplies.....	236.79	
Nov. 4	N. C. Sanatorium, stamps.....	40.00	
Dec. 7	National Association supplies.....	366.02	
1921			
Feb. 9	National Association supplies.....	163.38	
	Balance appropriation.....	10.35	
		$ 1,000.00	1,000.00
	Unused balance	$ 10.35	

(o)

Appropriation Account Salary Executive Secretary..... $ 1,200.00

1920			
April 17	L. B. McBrayer, salary.....	$ 600.00	
1921			
Feb. 16	L. B. McBrayer, salary.....	600.00	
		$ 1,200.00	1,200.00

(p)

Appropriation Account Miscellaneous Expense..... $ 700.00

1920			
April 8	W. U. T. Company, March account.....	4.37	
Mar. 11	Roger Fibre Company, lantern cases.....	96.00	
April 2	American Ry. Exp. Co., March account...	3.62	
April 8	W. U. T. Company, March account.....	4.37	
April 18	National Association Publicity Service...	67.80	
May 1	American Ry. Exp. Co., April account....	2.36	

1920				
May	1	National Association	$ 7.00	
May	4	R. B. Wilson, exp. St. Louis	192.76	
May	18	Union Carbide Co., carbide	4.55	
		Roger Fibre Co., lantern cases	96.00	
June	14	Victor Animatograph Co., slides	18.39	
June	15	National Association, cuts	7.27	
June	23	Victor Animatograph Co., lanterns	349.75	
June	23	C. W. Hyde, repair to lantern	3.75	
July	2	Commercial Printing Co., bulletins	245.00	
July	6	A. C. Bulla, photo	3.00	
July	12	Stamps	20.00	
July	28	Stearns Engraving Co., eng. cut	11.00	
July	28	R. E. Luben, express slides	1.52	
Aug.	7	W. U. T. Co., July account	.52	
Aug.	9	Victor Animatograph Co., slides	9.19	
Aug.	28	A. W. Snow, exp. Atlanta Conference	53.59	
Sept.	2	J. Bryan Grimes, incorporation papers	4.80	
Sept.	4	W. L. Poole, recording incorp. papers	3.00	
Sept.	7	Greensboro Daily News, ad	6.84	
		Wilmington Star, ad	1.32	
		Asheville Citizen, ad	3.00	
Sept.	11	The Observer Company, ad	3.40	
		The State Company, ad	3.90	
		News and Observer, ad	4.68	
Sept.	14	Pound & Moore, office supplies	5.10	
		W. U. T. Co., August account	2.17	
Sept.	20	F. C. Edwards, consult. re. pub. director	25.00	
Sept.	29	F. M. Caldwell, bond	5.00	
Sept.	28	Ruth Alexander, telephone call	.90	
Sept.	4	National Association, membership	5.00	
Sept.	7	American Ry. Exp., August account	9.94	
Sept.	7	Ellington Studio, photographs	25.00	
Sept.	16	Mrs. M. M. Finger, ex. Jacksonville meet.	67.00	
Sept.	22	W. U. T. Co., September account	12.48	
Oct.	27	R. B. Wilson, membership National Asso.	5.00	
Nov.	9	American Ry. Exp. Co., October account	11.61	
Nov.	30	W. U. T. Co., October account	.90	
Dec.	7	W. U. T. Co., November account	25.55	
1921				
Dec.	9	Victor Animatograph Co., slides	2.88	
Jan.	3	American Ry. Exp. Co., December account	5.16	
Jan.	5	Hackney & Moale Co., printing	19.30	
		W. U. T. Co., December account	6.44	
Jan.	13	Chicago Inst., post cards	58.50	
Jan.	19	Vivian Jackson, Conference	10.75	
Feb.	1	R. B. Wilson, Chicago meeting	221.65	
Feb.	4	Stamps	20.00	
Feb.	7	W. U. T. Co., January account	2.28	
Nov.	30	Mrs. C. R. Whitaker, Jacksonville meeting	61.25	
				$ 1,842.49
		Excess appropriation used		$ 1,142,49

Assets and Liabilities

Checking Account on deposit, M. & F. Bank	$ 4,380.27
Saving Account, Merchants and Farmers Bank	10,000.00
Due from North Carolina Sanatorium, loan made for Occupational Therapy Building	5,558.50
Due from North Carolina Sanatorium, loan made to pay Board and Treatment of Discharged Soldiers	3,187.00
Due from loans made P. H. Nurse	300.00
Due for Crusade Supplies	259.48
Due from Local Chairmen	535.96
Total assets	$ 24,221.21
5% due National Association on 1920 Seal Sale	1,836.42
Net assets	$ 22,384.79

EIGHTH ANNUAL REPORT

OF THE

North Carolina Sanatorium for the Treatment of Tuberculosis

UNDER CONTROL OF STATE BOARD OF HEALTH

SANATORIUM, N. C.

1921

RALEIGH, N. C.
EDWARDS & BROUGHTON PRINTING COMPANY
STATE PRINTERS
1923

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NORTH CAROLINA SANATORIUM

FOR THE TREATMENT OF TUBERCULOSIS

Under Control of the State Board of Health

PERSONNEL

MEMBERS STATE BOARD OF HEALTH

Dr. J. Howell Way, President ..... Waynesville
Dr. Richard H. Lewis ..... Raleigh
Mr. Chas. E. Waddell ..... Asheville
Dr. A. J. Crowell ..... Charlotte
Dr. Thomas E. Anderson ..... Statesville
Dr. Chas. O'H. Laughinghouse ..... Greenville
E. J. Tucker, D.D.S. ..... Roxboro
Dr. F. R. Harris ..... Henderson
Dr. Cyrus Thompson ..... Jacksonville

Dr. W. S. Rankin, Secretary State Board of Health and
State Health Officer, Raleigh, N. C.

Superintendent ..... L. B. McBrayer, M.D., F.A.C.P.
Assistant Superintendent ..... P. P. McCain, A.B., M.D.
Clinician and Director Laboratory ..... R. McBrayer, A.B., M.D.
Assistant Physician ..... S. M. Bittinger, M.D.
Private Secretary to Superintendent ..... A. W. Snow
Head Nurse ..... Miss Elizabeth Connolly
Head Nurse, Assistant ..... Miss Grace Apple
Cashier ..... J. M. Clark

EXTENSION DEPARTMENT OF THE NORTH CAROLINA SANATORIUM FOR THE TREATMENT OF TUBERCULOSIS

Division of Tuberculosis, State Board of Health

Chief of Division ..... L. B. McBrayer, M.D., F.A.C.P.
Assistant Chief of Bureau ..... P. P. McCain, A.B., M.D.
Office Secretary ..... A. W. Snow
Stenographer, Chief ..... Mrs. H. O. Sink
Stenographer ..... Miss Grady Ingle
Stenographer ..... Miss Mary Snead
Stenographer ..... Miss Sibyl Brabble
Stenographer and X-ray Technician ..... Mrs. J. L. Spruill
Clerk ..... H. O. Sink
Clerk ..... Leamon Redd
Director Health Education Among the
Negroes ..... Mrs. F. C. Williams

CONSULTING STAFF

Surgery	DR. GEO. W. PRESSLY	Charlotte
	DR. J. F. HIGHSMITH	Fayetteville
Eye, ear, nose and throat	DR. JAS. M. LILLY	Fayetteville
	DR. M. LeR. SMOOT	Fayetteville
	DR. WM. S. JORDAN	Fayetteville
Genito-urinary	DR. A. J. CROWELL	Charlotte
	DR. J. D. HIGHSMITH	Fayetteville
Pathology Pharmacology	DR. JAS. B. BULLITT	Chapel Hill
	DR. WM. deB. MACNIDER	Chapel Hill

NORTH CAROLINA TUBERCULOSIS ASSOCIATION, INC.

DIRECTORS

MRS. GORDON FINGER, *President*
Charlotte, N. C.

MRS. CHARLES R. WHITAKER, *Vice-President*
Hendersonville, N. C.

DR. L. B. MCBRAYER, *Managing Director*
Sanatorium, N. C.

DR. OTHO ROSS
Charlotte, N. C.

MRS. CUTHBERT MARTIN
Wilmington, N. C.

MRS. W. N. HUTT
Southern Pines, N. C.

MRS. T. D. JONES
Durham, N. C.

DR. C. L. MINOR
Asheville, N. C.

MR. R. B. WILSON
Raleigh, N. C.

DR. R. L. CARLTON
Winston-Salem, N. C.

DR. J. DONNOLLY
Charlotte, N. C.

MRS. C. C. HOOK
Charlotte, N. C.

DR. W. L. DUNN
Asheville, N. C.

COL. J. L. LUDLOW
Winston-Salem, N. C.

MRS. MARK QUINNERLY
Greenville, N. C.

MRS. S. H. BROWN
Oxford, N. C.

MRS. J. L. WETMORE
Arden, N. C.

MR. HAMILTON C. JONES
Charlotte, N. C.

MRS. R. C. WARREN
Gastonia, N. C.

MRS. HOWARD RONDTHALER
Winston-Salem, N. C.

MRS. C. J. TINSLEY
Greensboro, N. C.

MRS. MAX T. PAYNE
Greensboro, N. C.

MRS. M. E. ROBINSON
Goldsboro, N. C.

A. W. SNOW, *Assistant Director*

J. L. SPRUILL, M.D., *Clinic Physician*

DR. E. T. RANSOM, *Moving Picture Exhibitor and Health Lecturer*

LETTER OF TRANSMITTAL

Dr. W. S. Rankin, *Secretary*
State Board of Health,
Raleigh, N. C.

My Dear Doctor:

I hereby transmit to you, and through you to the State Board of Health and the Governor and the General Assembly, a report, being the eighth annual report of the North Carolina Sanatorium for the Treatment of Tuberculosis for the year 1921.

Very respectfully yours,

L. B. McBrayer,
Superintendent.

EIGHTH ANNUAL REPORT
OF
THE NORTH CAROLINA SANATORIUM FOR THE TREATMENT OF TUBERCULOSIS
UNDER CONTROL OF
THE STATE BOARD OF HEALTH
SANATORIUM, N. C.

We feel more encouraged with the work at this time than at any time in the history of the eight years of our connection with the Sanatorium.

NEW BUILDING

The building known as the main building and infirmary has been completed and we moved into it during October. This not only gives us additional room for patients, but also gives us the proper offices in which to do our medical work. The building is the equal of any sanatorium building anywhere and is better than most. It has every convenience that will make the patients' stay here more pleasant and beneficial as it relates to the patients' quarters, and that will enable the medical and nursing staffs to give the patients the proper attention.

LABORATORY

For the first time since the Sanatorium has been opened we have sufficient facilities for bacteriologic, serologic, pathologic and chemical laboratories. This has been greatly enlarged and improved under the direction of Dr. R. McBrayer, both in the scope of the work and in the efficiency of the work, since we have gotten into the new building. The laboratory work at this time is the equal of that done in any sanatorium—barring only a few that could be counted on the fingers of one hand—to the great benefit of the patients.

X-RAY LABORATORY

The laboratory floor of the new building also gives us sufficient space for the X-ray laboratory, and when we moved in our equipment was brought up to date by the expenditure of some $1,800, and our thanks are due the North Carolina Tuberculosis Association for this,

as well as the original installation of the X-ray laboratory. The X-ray has become more and more useful in the diagnosis and treatment of tuberculosis, particularly over the period of the last four years, due to constant study of this subject by physicians, and we are making continual use of the X-ray both in the diagnosis and treatment of patients.

MEDICAL SERVICE

Our medical service has been improved, the additional facilities for work being a greater incentive as well as opportunity to find out, first, whether or not the patient has tuberculosis, and, second, to find out about any and every other disease that is affecting and interfering with his getting well of tuberculosis. The staff has accepted the opportunities and worked energetically and enthusiastically for long hours every day, much to the benefit of the patients who come here. A case in point:

A young man was sent here for treatment by a physician who had made a diagnosis of tuberculosis. The patient was emaciated, with a sallow complexion, and at first glance looked a typical case of tuberculosis. On examination it was found that he didn't have tuberculosis at all. We felt it our duty to find out what he did have. The bowel contents were examined in the laboratory, as is done in all cases who come here, and a negative report made. An examination of the blood was done in the laboratory and this examination indicated an intestinal parasite. The intestinal contents were examined repeatedly with a negative report. A sample was sent to the State Laboratory of Hygiene and a negative report returned. Many other examinations were conducted—all negative. The blood picture continued the same. After the administration of certain medicines an examination of the intestinal contents revealed the fact that the patient had hookworm, which was properly treated and he has been restored as a useful citizen, when otherwise he would have been a total economic loss and total expense to the State and the community in which he lived, until the day of his death.

CO-OPERATION OF THE PATIENTS

It is very obvious that the patients enter more into the spirit of the work—the end to which everything drives being getting the patients well—than ever before in the history of the institution. This is greatly to be desired and enables us to do much more for them than formerly.

FOOD

With the decline in prices of foodstuffs we have been able to serve a greater variety of food, prepared in a greater variety of ways than heretofore, and we are having a great deal less complaint in regard to the food than we have had in the past. In fact, it is very seldom that we have a complaint.

DAIRY

The dairy continues to furnish us an ample supply of as good milk as is produced in the State or in the South. Great care is taken in its production and in the handling of it. It is served to the patients in

individual half-pint bottles. We are endeavoring to build up the dairy to a point where it will continue to furnish all the milk needed as our capacity is increased, and we hope when the division for negroes is opened we will be able to furnish sufficient milk to supply that also. During the last year we have put up an additional silo which will probably take care of our needs in this line for several years to come. We did not have sufficient funds left to build the cow barn unit, so instead we put up ten maternity pens and six calf pens. These have concrete floors, but the remainder is of very cheap construction, consisting of rough wood with shed roof covered with rubberoid roofing. We will need an additional dairy barn unit next year. We have several very fine Jerseys producing 10,000 pounds of milk and above per year and one of these cows averaged 6¼% butter fat last year for the entire year and has this official record with the American Jersey Cattle Club. We have five or six heifer calves out of these cows at this time and hope in the course of a few years to have a herd of this kind of cattle without any additional expense.

HOGS

Three years ago we purchased three Berkshire hogs at the Southern Berkshire Congress at Pinehurst. From these, without additional expense, we have developed a very fine herd of Berkshire hogs. A year ago we leased our boar to Mr. Leonard Tufts in exchange for one from him. Mr. Tufts exhibited this boar at the State Fair and he took the Grand Champion Prize. We supply the table with all the pork that is needed.

FARM

The farm has been greatly improved in the last two years. Some additional land has been put in cultivation. We have been able to supply the table with a large amount of fresh vegetables, supply the dairy with all the ensilage needed and make sufficient feed to take care of the mules. The farm has also done some construction work, particularly the laying of a water line from the present Sanatorium to the site for the negro division—the first half of the line at a cost 50% less than the lowest bid and the last half at 75% lower than the lowest bid.

GROUNDS AND PARKS

We never had an appropriation for roads, walkways, grounds and parks. This is very greatly needed. All the roads and walkways that we have were built by the farm force. During the last year the farm force did considerable work on the grounds and we were able to get several acres around the buildings cultivated sufficiently to put in rye. We need very badly a liberal appropriation for the improvement

of the grounds, parks and roadways. The location of the Sanatorium is very beautiful indeed, both in the immediate and remote outlook. The grounds and parks around the buildings, consisting of some forty to seventy-five acres, lend themselves wonderfully well to beautifying, and it isn't fair to the patients for them to remain in their present unkempt state. A liberal appropriation is respectfully requested.

SUNDAY SCHOOL SERVICES

These services continue to be a source of much pleasure and profit to both the patients and the staffs. Sunday school has been better attended by the patients during the last year than ever before. It is run by the patients. As a rule the officers are supplied from among themselves and oftentimes the teachers. The various staffs of the Sanatorium give any help needed, and usually attendance among these is very good. Occasionally visitors to the institution or to some of the residents teach the Sunday school lesson. For several years Miss Grace MacKinnon of Bennettsville, South Carolina, a graduate nurse who is interested in the work of the Sanatorium, has been sending the Sunday school a check for five dollars each quarter, which amount practically supplies the Sunday school with the literature needed. This liberal contribution is very much appreciated.

OTHER RELIGIOUS SERVICES

The ministers of the various denominations near the Sanatorium have been very kind during the last year and we have averaged about two to three services a month, usually on an afternoon of a week day. Our thanks are especially due to the following ministers: Mr. Keller and Mr. McWhorter of Aberdeen and Mr. Alexander of Raeford.

ENTERTAINMENTS

The good ladies of Pinehurst and Southern Pines have for some time taken an interest in the social welfare of the institution and have on different occasions provided us with many delightful forms of entertainment. On one occasion Mr. Edgar Guest, while on a visit to Pinehurst, came over and gave us a reading from his works. Miss Annie Oakley (Mrs. Butler) has not only given us exhibitions of her wonderful marksmanship, but has also contributed liberally to the pleasure of the patients in many other ways. The patients themselves occasionally get up an entertainment and these are always greatly enjoyed.

The Woman's Club at this place has taken a great deal of interest in furnishing entertainment for the patients and has given many general entertainments, such as seeing that the holidays are properly observed. As an example, a hen's nest was found on each patient's table at breakfast on Easter morning, filled with various colored Easter eggs. These entertainments have given much pleasure to the patients and to the different staffs as well.

DONATIONS

The people throughout the State continue to show a personal interest in the Sanatorium and the patients who come here. As evidence we can say that no patient has ever had to leave the Sanatorium for lack of clothing or funds, if the reason for leaving was made known When such matters have been brought to the attention of various and sundry clubs and people throughout the State, these things have been provided. As concrete examples: the State Federation of Women's Clubs have been supporting a bed here in memory of Mrs. Cordie D. McBrayer; the United Daughters of the Confederacy have also been supporting a bed here.

In addition to this the following have made donations, together with many others whose names we were not always able to secure:

Henderson County Tuberculosis Association (furnishing of one room).
Federal Board for Vocational Education (books).
All Souls Church, New York City (Mrs. F. C. Brush, Chairman, Cheerful Letter Committee).
Metropolitan Church Association, Waukesha, Wisconsin.
The Would-be-Wise Club, Fayetteville, N. C.
Miss Annie Oakley (Mrs. Butler), Pinehurst, N. C.
Miss Grace MacKinnon, Bennettsville, S. C.
Mrs. M. E. Baxter, Seattle, Washington.
Miss Rebe Hill Shields, Scotland Neck N. C.
Miss Georgie Hicks, Faison, N. C.
Dr. Cyrus Thompson, Jacksonville, N. C.
Mr. J. E. Blaisdell, Southern Pines, N. C.
Mr. E. E. Bickford, Southern Pines, N. C.
Mrs. Shopwell, Williamsport, Pennsylvania.
Mrs. G. R. Wittle, Southern Pines, N. C.
United Daughters of the Confederacy, Leaksville, N. C. ($5.00).

SANATORIUM CLINIC

This clinic continues to be of great service to the medical profession and people of the State. Of course, it takes a good deal of the time of the medical staff, but we consider it time well spent and we feel that it is furnishing to the profession and the people a very valuable and much needed thing. We are assured in various ways at various times that this clinic has the hearty approval, as well as support, of the medical profession of the State.

EXTENSION WORK AMONG THE NEGROES

This is perhaps the largest and best piece of health work that has ever been done among the negro population of our State, or any state, and is showing splendid results. We believe that the negroes are more

than ready to use the negro division of the Sanatorium, which will be ready to open when an appropriation is made for its maintenance. The statistical data on this work is found in the statistical section of the report.

DECLINE IN DEATH RATE—A WINNING FIGHT

It is a great pleasure to note that in the eight years that the State Board of Health has been conducting the Sanatorium and in the seven years that appropriations have been made to the Extension Department, which is the Division of Tuberculosis of the State Board of Health, that the actual number of deaths in the State has been reduced 50% in round numbers, the deaths for 1913 being given at 4,800 and for 1921, 2,546. This means that there were 2,300 people alive at the end of 1921 that would have died during that year, had the same number of deaths taken place from tuberculosis as did in 1913. This is indeed great cause for encouragement. However, tuberculosis continues to be a greater economic loss to the people of the State than all other preventable diseases put together, and the accomplishments thus far should only serve to encourage the people of the State, as well as those engaged in tuberculosis work, to greater effort.

THE NORTH CAROLINA TUBERCULOSIS ASSOCIATION

We wish to express our appreciation for the hearty and close coöperation of the North Carolina Tuberculosis Association in the State-wide campaign against tuberculosis. Without the aid of this Association and without the money it has spent, the accomplishments could not have been so great. The funds of the Association are raised each year by the sale of Tuberculosis Christmas Seals at Christmas time.

AS OTHERS SEE US

The medical profession and the people in this and other states show continued appreciation of the character and amount of work being done here, but perhaps the greatest compliment that we have had was the following: The Medical Director of the Bureau of War Risk Insurance (now the United States Veterans' Bureau) requested the National Tuberculosis Association and the American Sanatorium Association to appoint a joint committee to consider and report on rules of discipline and treatment for War Risk Insurance beneficiaries. Doctors G. Walter Holden, Denver, Colorado; Henry D. Chadwick, Westfield, Massachusetts; Walter J. Marclay, Minneapolis, Minnesota; David R. Lyman, Wallingford, Connecticut; and Martin F. Sloan, Baltimore,

Maryland, composed the committee. In the report of this committee, October 1, 1921, which was approved by Dr. James Alexander Miller, President of the National Tuberculosis Association, and Dr. Lawrason Brown, President of the American Sanatorium Association, the following statement was made:

"Take sanatoriums handling principally 'State' patients, such as Gaylord Farm, Maryland State, *North Carolina State*, Massachusetts State, Agnes Memorial, Eudowood and numerous others where the authority of discharge is vested in the superintendent, and you will find that order and discipline are maintained and that the sanatorium results obtained are among the best in the country. Their methods have produced excellent results and civilians are glad to have the benefit of treatment in these sanatoriums."

SUMMARY OF YEAR'S WORK

OF THE NORTH CAROLINA SANATORIUM (INCLUDING THE EXTENSION DEPARTMENT), 1921

Letters and postals received		25,365
Letters Written:		
Individual	16,646	
Multigraphed	50,726	
Total		67,372
Articles Written (Approx. No. Words):		
Newspaper	22,350	
Bulletin	47,160	
Other Publications	3,700	
Articles copied	293,305	
Total		366,515
Forms and Placards prepared		170
Total Number of copies of Forms and Placards		137,624
Blank Cards Mailed for Reporting Cases of Tuberculosis		4,082
Number Cases Reported:		
White	1,433	
Colored	1,090	
Total		2,523
Literature:		
Pieces Sent to Reported Cases	6,531	
Other Literature Sent out	32,969	
Total		39,500
Samples of Crusade Literature Sent		668
Crusade Literature Sent to Pupils		66,002
Sputum Cups Distributed		142,120
Tuberculin Sent Physicians for Von Pirquet Diagnostic Test		226
Blanks for Reporting Results of Von Pirquet Diagnostic Test		226
Patients' Histories Written (484). Approx. No. Words		400,400
Cards and Envelopes Addressed		116,964
Enclosures Sent		32,588
Total Number Reached by Mrs. F. C. Williams and Supervisors in Addresses on Health and Sanitation		224,089
Total Number Reached by Dr. E. T. Ransom by Health Moving Pictures and Lectures		79,900
Number of Lanterns and Slides Loaned		19
Number of Illustrated Lectures		86
Number Present at Illustrated Lectures		33,270
Dr. L. B. McBrayer:		
Addresses delivered		23
Total audience		2,505
Conferences attended		365
Consultations		370
Days out of office		55

DR. P. P. MCCAIN:

Addresses delivered	6
Total audience	600
Conferences attended	6
Consultations	0
Days out of office	40

DR. R. MCBRAYER:

Addresses delivered	4
Total audience	400
Conferences attended	53
Consultations	10
Days out of office	27

DR. J. L. SPRUILL:

County clinics held	22
Addresses delivered	74
Total audience	11,110
Number positive cases	465
Number suspicious cases	172
Number negative cases	1,487
Total number of examinations	2,124
Days out of office	168

Number of school children examined. Inspection, Von Pirquet, etc).... 178

MEDICAL REPORT

STATISTICAL

Number patients to be reported on	311
Number patients not tuberculous	30
Number patients not classified	7
Number patients in Sanatorium December 1, 1921	114
Number patients treated during year	462

40 PATIENTS WHO STAYED LESS THAN 30 DAYS.

Condition on Admission	Condition on Discharge					
	Arrested	Apparently Arrested	Quiescent	Improved	Unimproved	Died
Incipient 3	0	0	0	3	0	0
Moderately advanced 12	0	0	0	11	1	0
Far advanced 25	0	0	0	10	9	6
Acute tuberculosis 0	0	0	0	0	0	0

Average stay, 18.3 days. Longest stay, 29 days. Shortest stay, 4 days.

Number gained weight, 23.		Number lost weight, 6.	
Average gain	3.2 Lbs.	Average loss	3.4 Lbs.
Largest gain	29.0 Lbs.	Largest loss	9.5 Lbs.
Smallest gain	.5 Lb.	Smallest loss	.5 Lb.
Stationary	0	Not weighed	11

93 PATIENTS WHO STAYED FROM 30 TO 89 DAYS.

Condition on Admission	Condition on Discharge					
	Arrested	Apparently Arrested	Quiescent	Improved	Unimproved	Died
Incipient 27	0	1	13	13	0	0
Moderately advanced 21	0	0	5	15	1	0
Far advanced 44	0	0	3	12	25	4
Acute tuberculosis 1	0	0	0	0	1	0

Average stay, 59.7 days. Longest stay, 89 days. Shortest stay, 30 days.

Number gained weight, 64.		Number lost weight, 20.	
Average gain	8.8 Lbs.	Average loss	4.9 Lbs.
Largest gain	26.0 Lbs.	Largest loss	15.0 Lbs.
Smallest gain	.75 Lb.	Smallest loss	.25 Lb.
Stationary	4	Not weighed	5

178 PATIENTS WHO STAYED 90 DAYS OR MORE.

Condition on Admission	Condition on Discharge					
	Arrested	Apparently Arrested	Quiescent	Improved	Unimproved	Died
Incipient 43	3	23	16	0	1	0
Moderately advanced 80	0	11	41	20	7	1
Far advanced 55	0	0	10	21	14	10
Acute tuberculosis 0	0	0	0	0	0	0

Average stay, 183.4 days. Longest stay, 647 days. Shortest stay, 90 days.

Number gained weight, 144.		Number lost weight, 27.	
Average gain	14 0 Lbs.	Average loss	7.7 Lbs.
Largest gain	55.5 Lbs.	Largest loss	39.5 Lbs.
Smallest gain	1.0 Lb.	Smallest loss	0.25 Lb.
Stationary	3	Not weighed	4

RESULTS OF SPUTUM EXAMINATIONS

Negative or no sputum	127
Positive—	
On admission	172
During residence	155
On discharge	139
Total	593

HISTORY OF HEMORRHAGE

Negative	195
Positive—	
Previous only	93
Previous and during residence	17
During residence only	6
	311

Sex	Age						Civil Condition		
	—19	20–29	30–39	40–49	50–59	60	Single	Married	Widowed
Male 150	16	56	31	27	13	7	74	68	8
Female 161	14	62	62	16	5	2	61	90	10
Totals 311	30	118	93	43	18	9	135	158	18

COMPLICATIONS

Alveolaris	1	Malaria	2
Appendicitis	1	Miscarriage	1
Bronchictasis	1	Meningitis	1
Bronchial asthma	3	Mitral regurgitation	2
Bronchitis	12	Myocarditis	1
Bronchopneumonia	1	Nephritis	8
Cardiac hypertrophy	1	Osteitis	1
Choroiditis	1	Otitis media	3
Coxalgia	1	Prolapse kidney	1
Cold abscess on sternum	1	Pharyngitis	1
Enteritis	18	Pregnancy	4
Fistula (anal)	4	Pyelitis	1
Gonorrhea	1	Pyorrhea, adenitis	4
Hemorrhoid	1	Pyopneumorthorax	2
Hookworm	6	Pleurisy with effusion	9
Hypertension	1	Scabies	1
Influenza	3	Septic arthritis	3
Iritis	1	Spinal meningitis	1
Laryngitis	34	Spontaneous pnuemorthorax	2
Lues	1	Tonsilitis	6
Lung abscess	1		

OCCUPATIONS

Auto Mechanics	2	Bookkeepers	4
Bank Teller	1	Carpenters	2
Clerks in Stores	10	Merchants	7
Coach Builder	1	Nurses	3
Cook	1	Painters	2
Cotton Mill Employees	15	Photographers	2
County Superintendent Welfare	1	Physician	1
Detective	1	Postmaster, Assistant	1
Dressmaker	1	Postmaster, Clerk	1
Editor	1	Railroad Employees	8
Electricians	2	Salesladies	2
Farmers	50	Salesmen	3
Glass Worker	1	Saw-Milling	1
Housekeepers	2	Seamstress	1
Housewives	115	Soldiers	2
Hotel Clerk	1	Stenographer	1
Insurance Agent	1	Students	22
Laborers	2	Tailor	1
Lawyer	1	Teachers	10
Machinists	9	Telegraphers	2
Chauffeur	1	Tobacconists	2
Manager Merchandise Store	1	Traveling Salesmen	5
Mason, Brick	1	No Occupation	8

TOWNS FROM WHICH THE PATIENTS CAME

Ahoskie	1	Bakersville	1
Alert	1	Bath	1
Arden	2	Belmont	4
Asheville	2	Benson	1
Atkinson	1	Brinkleyville	2
Aydlett	1	Bentonville	1

Black Creek	2
Bladenboro	1
Blount Creek	1
Boomer	1
Boone	1
Booneville	1
Bosley	1
Brevard	1
Burlington	5
Buxton	1
Calypso	1
Cameron	2
Carpenter	1
Cary	1
Cerro Gordo	1
Chapel Hill	1
Charlotte	12
Claremont	1
Clinton	1
Colerain	1
Como	1
Corapeake	1
Concord	1
Conover	1
Cove City	1
Creston	1
Currituck	1
Duke	1
Dunn	5
Durham	5
Draper	1
East Bend	1
Edwards	1
Elizabeth City	1
Elizabethtown	1
Enfield	2
Etowah	1
Eufola	3
Fairmont	1
Falkland	1
Farmington	1
Farmville	1
Fayetteville	8
Franklin	1
Fontana	1
Gastonia	5
Gates	1
Germantown	1
Gibsonville	1
Glenwood	1
Goldsboro	6
Gold Hill	1
Greensboro	4
Green Mountain	1
Greenville	2
Grifton	1
Hallsboro	1
Hamlet	3
Hamptonville	1
Hayne	1
Henderson	3
Hickory	1
High Point	3
High Towers	1
Hillsboro	1
Hope Mills	2
Hurdle Mills	1
Ivanhoe	1
Jamestown	2
Jamesville	1
Jonesville	1
Kannapolis	1
Kerr	1
King	1
Kings Creek	1
Kinston	3
Kittrell	1
Laurinburg	1
Lawndale	1
Leaksville	1
Lenoir	1
Lewiston	2
Lexington	3
Liberty	2
Lillington	1
Lincolnton	4
Littleton	3
Louisburg	1
Lukens	1
Lumber Bridge	1
Lumberton	2
McDonald	1
Macclesfield	1
Magnolia	1
Manson	1
Marshall	1
Mars Hill	1
Marshallburg	1
Mayodan	1
Mebane	2
Merry Oaks	1
Middlesex	1
Mizpah	1
Mocksville	1
Monroe	2
Mooresboro	1
Morchead City	1
Morganton	2
Morven	2
Mount Airy	2
Mount Gilead	1
Mount Olive	2

Mount Pleasant	1
Murfreesboro	2
Nashville	1
Newell	1
Newton	1
Norman	1
Oakboro	1
Oriental	1
Orrum	1
Oxford	2
Parkton	1
Pinehurst	1
Pinetops	1
Pinnacle	1
Plymouth	2
Powellsville	1
Princeton	1
Prospect Hill	2
Raeford	1
Raleigh	4
Ramseur	1
Randleman	2
Ransomville	1
Raynham	1
Reidsville	4
Rennert	1
Rich Square	1
Roanoke Rapids	1
Rockingham	3
Rocky Mount	7
Ronda	1
Rooks	1
Rowland	1
Roxobel	1
Sanford	4
Salisbury	1
Scotland Neck	2
Seven Springs	1
Sharpsburg	2
Shelby	2
Siloam	1
Smithfield	3
Statesville	2
Steeds	1
Swepsonville	1
Stumpy Point	1
Tabor	1
Tarboro	5
Thomasville	1
Timberland	1
Trenton	1
Troy	1
Vandemere	1
Vineland	1
Wadesboro	1
Warren Plains	1
Warsaw	1
Washington	2
Waxhaw	1
Wendell	1
Whitakers	1
Whitnel	1
Whitsett	1
Williamston	2
Wilmington	1
Wilson	2
Wingate	1
Winston-Salem	3
Winton	1
Yadkinville	1
Yuma	1

COUNTIES FROM WHICH PATIENTS CAME

Alamance	8
Anson	3
Ashe	1
Beaufort	5
Bertie	5
Bladen	2
Buncombe	3
Burke	2
Cabarrus	3
Caldwell	2
Carteret	3
Caswell	3
Catawba	4
Cleveland	5
Columbus	4
Craven	1
Cumberland	10
Currituck	1
Dare	2
Davidson	4
Davie	2
Duplin	3
Durham	5
Edgecombe	7
Forsyth	3
Franklin	2
Gaston	9
Gates	3
Granville	2
Guilford	12
Halifax	10
Harnett	7
Henderson	1
Hertford	5
Hoke	2
Iredell	5

Johnston	6	Randolph	5
June	80	Richmond	7
Lee	4	Robeson	9
Lenoir	3	Rockingham	3
Lincoln	4	Rowan	2
Macon	1	Sampson	4
Madison	2	Scotland	1
Martin	3	Stanly	1
Mecklenburg	13	Stokes	4
Mitchell	2	Surry	4
Montgomery	3	Swain	1
Moore	3	Transylvania	1
Nash	12	Union	4
New Hanover	1	Vance	3
Northampton	5	Wake	8
Onslow	1	Warren	2
Orange	1	Washington	3
Pamlico	2	Watauga	2
Pasquotank	2	Wayne	10
Pender	2	Wilkes	2
Person	1	Wilson	4
Pitt	5	Yadkin	5

OUTSIDE PATIENTS EXAMINED FOR DIAGNOSIS AND CONSULTATION

December	33	July	81
January	35	August	105
February	26	September	85
March	49	October	87
April	60	November	50
May	60		
June	80	Total	751

Classification:

Ex-patients Examined	204
Positive Diagnosis	206
Negative Diagnosis	341
Total	751

SUMMARY MEDICAL REPORT DECEMBER 1, 1920, TO NOVEMBER 30, 1921

Patients Admitted:	
Incipient	70
Moderately Advanced	124
Far Advanced	129
Not Classified	12
Not Tuberculous	13
For Diagnosis	3
Total	351
Patients Discharged:	
Arrested	3
Apparently Arrested	35
Quiescent	88
Improved	105
Died	21
Unimproved	59

Not Classified	6
Not Tuberculous	31
Total	348

Hospital Days	40,047
Number Patients, December 1, 1920	111
Number Patients Admitted	351
Number Patients Discharged	348
Number Patients, December 1, 1921	114
State Appropriation, Maintenance	$85,000
Cost per Patient per day to State	$2.12

STEREOROENTGENOGRAMS

of Chest

	Sanatorium Patients	Outside Patients
	455	118
Other Parts of Body		
	20	—
Therapy		
	45	—
Total	520	118

LABORATORY REPORT

Sputum:	(Micros.)	1,714	
	(Chem.)	164	
	Total		1,878
Urinalysis:	(Micros.)	803	
	(Chem.)	1,362	
	(Special Studies)	12	
	(Phthalein Functional Tests)	201	
	Total		2,378
Blood:			
	R. B. C.	86	
	W. B. C.	105	
	Dif. W. B. C.	73	
	Hemoglobin	66	
	Color Index	63	
	Arneth	10	
	Malaria	18	
	Wassermanns	112	
	Sugar	221	
	Urea	40	
	Chlorides	23	
	Culture (State Lab.)	5	
	Coagulation Determination	208	
	Total		1,031
Basal Metabolisms			182
Fractional Ewald Meals			128
Feces			321
Vaginal Smears			77
Pleural Fluid			6
Pollen Protein Reaction			15
Ear Discharge			1
Total			6,017

PRESENT CONDITION OF ALL INCIPIENT PATIENTS DISCHARGED FROM THE SANATORIUM PREVIOUS TO JUNE 30. 1921.

Condition on Discharge	Condition November 30, 1921	Year Discharged								
		1914	1915	1916	1917	1918	1919	1920	1921	Total
Arrested 53	Living and working	0	4	6	9	3	5	11	1	39
	Living and not working	0	0	0	3	1	1	4	0	9
	Dead	0	0	0	0	0	0	0	0	0
	Lost	0	1	0	2	0	0	2	0	5
Apparently Arrested 177	Living and working	0	7	25	29	31	13	17	6	128
	Living and not working	1	0	3	3	4	5	7	1	24
	Dead	0	1	2	1	1	3	1	0	9
	Lost	1	2	3	4	3	1	1	1	16
Quiescent 110	Living and working	4	5	11	10	10	11	16	7	74
	Living and not working	0	0	1	1	1	3	11	1	18
	Dead	0	5	2	0	0	2	0	0	9
	Lost	1	0	1	2	2	0	2	1	9
Improved 82	Living and working	0	5	12	11	10	6	9	2	55
	Living and not working	0	0	3	2	0	2	3	2	12
	Dead	0	1	0	1	2	1	0	0	5
	Lost	1	0	2	0	0	4	3	0	10
Unimproved 5	Living and working	0	0	1	1	1	0	0	1	4
	Living and not working	0	0	0	0	0	0	0	0	0
	Dead	0	0	0	1	0	0	0	0	1
	Lost	0	0	0	0	0	0	0	0	0
Total 427	Living and working	4	21	55	60	55	35	53	17	300
	Living and not working	1	0	7	9	6	11	25	4	63
	Dead	0	7	4	3	3	6	1	0	24
	Lost	3	3	6	8	5	5	8	2	40

PRESENT CONDITION OF ALL MODERATELY ADVANCED PATIENTS DISCHARGED FROM THE SANATORIUM PREVIOUS TO JUNE 30, 1921.

Condition on Discharge	Condition November 30, 1921	Year Discharged								
		1914	1915	1916	1917	1918	1919	1920	1921	Total
Arrested 17	Living and working	0	4	7	1	1	1	2	0	16
	Living and not working	0	0	0	0	0	0	0	0	0
	Dead	0	0	0	0	0	0	0	0	0
	Lost	0	0	0	1	0	0	0	0	1
Apparently Arrested 52	Living and working	3	1	5	6	12	5	4	1	37
	Living and not working	0	1	0	2	1	0	1	2	7
	Dead	1	1	2	0	1	0	0	0	5
	Lost	0	0	2	0	1	0	0	0	3
Quiescent 347	Living and working	5	10	20	33	28	34	17	7	154
	Living and not working	0	5	7	7	8	11	17	6	61
	Dead	14	18	36	20	14	8	1	0	111
	Lost	2	2	3	3	3	4	4	0	21
Improved 233	Living and working	5	7	11	15	9	9	13	5	74
	Living and not working	2	1	2	4	9	1	15	7	41
	Dead	19	16	20	25	15	4	5	2	106
	Lost	0	0	1	3	0	4	4	0	12
Unimproved 53	Living and working	0	0	1	0	0	0	1	0	2
	Living and not working	0	0	0	0	2	1	5	1	9
	Dead	1	6	4	5	8	7	8	2	41
	Lost	0	0	1	0	0	0	0	0	1
Total 702	Living and working	1	22	44	55	50	49	37	13	283
	Living and not working	2	7	9	13	20	13	38	16	118
	Dead	35	41	62	50	38	19	14	4	263
	Lost	2	2	7	7	4	8	8	0	38

PRESENT CONDITION OF ALL FAR ADVANCED PATIENTS DISCHARGED FROM THE SANATORIUM PREVIOUS TO JUNE 30, 1921.

Condition on Discharged	Condition November 30, 1921	Year Discharged								
		1914	1915	1916	1917	1918	1919	1920	1921	Total
Arrested 0	Living and working	0	0	0	0	0	0	0	0	0
	Living and not working	0	0	0	0	0	0	0	0	0
	Dead	0	0	0	0	0	0	0	0	0
	Lost	0	0	0	0	0	0	0	0	0
Apparently Arrested 1	Living and working	0	0	0	0	0	1	0	0	1
	Living and not working	0	0	0	0	0	0	0	0	0
	Dead	0	0	0	0	0	0	0	0	0
	Lost	0	0	0	0	0	0	0	0	0
Quiescent 99	Living and working	0	4	5	8	5	4	5	2	33
	Living and not working	0	1	0	2	2	5	3	3	16
	Dead	3	11	10	11	6	5	0	0	46
	Lost	0	0	0	0	3	1	0	0	4
Improved 172	Living and working	0	3	2	5	6	2	5	0	23
	Living and not working	0	0	2	2	1	5	11	5	26
	Dead	20	19	18	27	16	13	5	4	122
	Lost	0	0	1	0	0	0	0	0	1
Unimproved 167	Living and working	0	0	0	1	0	0	1	1	4
	Living and not working	0	0	0	1	0	1	4	2	8
	Dead	19	17	13	15	32	24	21	11	152
	Lost	0	0	0	0	0	2	0	1	3
Total 439	Living and working	0	7	7	14	12	6	11	3	60
	Living and not working	0	1	2	5	3	11	18	10	50
	Dead	42	47	41	53	54	42	26	15	320
	Lost	0	0	1	1	3	3	0	1	9

OCCUPATIONAL THERAPY

Miss Lula Roberson, Instructor.

Report for year, December 1, 1920, to November 30, 1921
(Work suspended for three months during the summer)

Number pieces pine needle work	182
Number pieces embroidery, crocheting, tatting, etc.	95
Number pieces bead work	30
Number pieces punch work	18
Number pieces leather work	13
Number pieces reed work	9
Total number pieces work	347

LITERATURE OF THE BUREAU OF TUBERCULOSIS OF THE NORTH CAROLINA STATE BOARD OF HEALTH

Bulletin No. 61—How to Care for a Tuberculous Patient.
Bulletin No. 70—TUBERCULOSIS: (A. M. A. Bulletin).
Bulletin No. 92—An Act to Prevent the Convicts or Prisoners of North Carolina from Contracting Tuberculosis.
Bulletin No. 117—Tuberculosis: Its Symptoms, Prevention and Cure.
Bulletin No. 129—County Tuberculosis Problem.
Bulletin No. 157—The Problem of the Returned Tuberculous Soldier.
Bulletin No. 1000—If There Is To Be Democratic Equality of Opportunity There Must Be An Equal Opportunity for Health.
Bulletin No. 1001—Murder! (Perfectly Legal.)
Bulletin No. 1002—Carry On.
Bulletin No. 1003—Fundamental Principles of Public Health Nursing.
The Next To Go.
The Story of Four Generations.
Is Your Muffler Working or Your Cut-out Open?
They Are Dead.
Camouflage.
U-Boat.
After the "Flu," What?—"Watch Your Step."
The Incidence and the Importance of Pleurisy in Early Tuberculosis—by Dr. P. P. McCain, Sanatorium, N. C.
A Plea for An Earlier Diagnosis of Pulmonary Tuberculosis by the General Practitioner—by Dr. J. H. Way, Waynesville, N. C.
The Diagnosis of Early Pulmonary Tuberculosis for the General Practitioner—by Dr. S. E. Thompson, Carlsbad, Texas.
A Modern Prophecy—by Dr. Benj. K. Hays, Oxford, N. C.
The Infectiousness of Tuberculosis—by Dr. T. D. Coleman, Augusta, Ga.
Importance of the Whole-time Health Officer and the Whole-time Health Nurse in the Campaign Against Tuberculosis and All Preventable Diseases—by Dr. L. P. McBrayer, Sanatorium, N. C.
Tuberculosis: A Lecture for Teachers.
Tuberculosis Program for North Carolina.
Moving Picture Service.
Health Work Among the Negroes.
Halt! You Are Under Arrest.
The Slate of the General Assembly.

REPORT OF AUDIT

March 30th, 1922.

Dr. L. B. McBrayer, *Superintendent,*
North Carolina Sanatorium,
Sanatorium, N. C.

My Dear Sir:

In accordance with your instructions I have examined the books and vouchers of the North Carolina Sanatorium, at Sanatorium, N. C., for a period beginning December 1st, 1920, and ending November 30th, 1921, and respectfully submit the following report as a result of said examination.

The scope of my examination covered the process of verification and test of the clerical accuracy of the books, according to the recorded transactions, supported by approved vouchers.

I submit a Schedule of Inventories, designated in this report as Schedule No. 3, which were furnished me by the clerk, and while not verified by me, are accepted as correct and made a part of this report.

I have prepared various statements as enumerated in the index, all of which are attached hereto and exhibit, in my opinion, a correct view of the financial condition of the Sanatorium at the close of business on November 30th, 1921.

The books are neatly and accurately kept, the bookkeeper is thoroughly competent and always "on the job" and the system of accounting meets the needs of the institution, and I do not see how it could be improved.

Respectfully submitted,
(Signed) J. J. Bernard,
Certified Public Accountant.

BALANCE SHEET, NOVEMBER 30, 1921

ASSETS AND LIABILITIES

Assets

Cash in Drawer		$ 1,583.02	
Cash in Page Trust Co.		45,392.69	
Cash in Bank of Hoke		9,176.58	
Balance due State Appropriation:			
Permanent Improvement	$ 25,573.42		
Maintenance	17,500.00		
Extension	10,000.00		
Total		53,073.42	
Inventories		82,942.62	
Fixed Properties		541,351.84	
Total Assets			$733,520.17

Liabilities

Reserve for Depreciation	19,286.38		
Overdraft Extension Fund	197.50		
Outstanding Vouchers Page Trust Co.	21,756.13		
Outstanding Vouchers Bank of Hoke	597.36		
Total Liabilities			41,837.37
Net Worth			$691,682.80

RECEIPTS AND DISBURSEMENTS

RECEIPTS

State Appropriations

Permanent Improvement Fund	$162,321.15		
Extension Fund	5,000.00		
Maintenance Fund	67,500.00		
Total Appropriations			$234,821.15

Sanatorium Earnings

Board and Treatment of Patients	$ 68,118.81		
X-ray Examinations	1,479.42		
Total Earnings		$ 69,598.23	

Intertrading Accounts

Transportation and Drayage	$ 60.81		
Laundry	1,417.06		
Hospital Supplies	1,429.47		
Telegraph and Telephone	108.48		
Provisions	1,292.44		
Farm Sales	1,043.82		
Dairy Sales	42.40		
Sale of Hogs	256.70		
Miscellaneous	985.86		
Total Intertrading Accounts		6,637.04	
Total Sanatorium Earnings			76,235.27
Total Receipts			$311.056.42

DISBURSEMENTS

PERMANENT IMPROVEMENTS

	State Fund	Sanatorium Fund	Total
New buildings	$27,436.90		
Equipment and repair old buildings	13,752.71		
Negro sanatorium	5,553.48		
Superintendent's residence	2,260.50		
Finishing new buildings	48,428.89		
Laundry	557.44		
Well	7,922.17		
Sewer	254.76		
Laboratory equipment	755.57		
Cow barn and silo	2,466.25		
Negro quarters	6,253.65		
Total			$115,642.32

EXTENSION FUND

Salaries	$ 7,830.70		
Traveling expenses	2,782.42		
Furniture and fixtures	1,748.40		
Books and stationery	1,688.30		
Stamps	930.08		
Miscellaneous	20.10		
Total			15,000.00

MAINTENANCE APPROPRIATION

Salaries:			
Medical	$ 6,005.30	$ 37.28	
Executive	3,339.34	315.55	
Nurses and attendants	4,690.27	38.00	
Cooks and servants	10,594.82	19.75	
Total	$24,629.73	$ 410.58	25,040,31
Supplies:			
Bedding and linen	$ 2,148.49	$ 896.70	
Crockery and silver	645.10	510.14	
Drugs and medicine	1,347.37	1,100.46	
Miscellaneous	2,379.94	4,042.34	
Total	$ 6,520.90	$ 6,549.64	13,070.54
Provisions:			
Meats	$ 4,083.29	$ 8,525.14	
Butter	855.80	1,874.93	
Eggs	1,917.85	5,937.47	
Vegetables and fruits	1,371.14	1,162.36	
Groceries	6,319.99	11,772.85	
Miscellaneous	102.27	.....	
Total	$14,650.34	$29.272.75	43,923.09

DISBURSEMENTS—*Continued*

	State Fund	Sanatorium Fund	Total
Equipment:			
Furniture and fixtures	$ 1,530.56	$ 377.13	
Instruments	70.43	186.38	
Total	$ 1,600.99	$ 563.51	
Office:			
Equipment	$ 63.09	$ 157.90	
Stationery and books	19.33	51.33	
Stamps	193.44	43.11	
Miscellaneous	283.05	36.00	
Total	$ 558.91	$ 288.34	$ 847.25
Power and Heat:			
Labor	$ 1,847.20	$ 52.00	
Supplies	7,948.63	9,971.64	
Total	$ 9,795.83	$10,023.64	19,819.47
Light:			
Labor	$ 582.55		
Supplies	281.69	$ 10.20	
Total	$ 864.24	$ 10.20	874.44
Water:			
Labor	$ 537.85		
Equipment	171.44		
Supplies	49.06	$ 50.82	
Miscellaneous	33.60		
Total	$ 791.95	$ 50.82	842.77
Refrigeration:			
Labor	$ 520.00	$ 10.41	
Equipment	4.75	15.00	
Supplies	174.26	306.35	
Miscellaneous	171.54		
Total	$ 870.55	$ 331.76	1,202.31
Plumbing and sewer:			
Labor	$ 520.00		
Equipment	21.00		
Supplies	.84	$ 4.92	
Total	$ 541.84	$ 4.92	546.76
Farms:			
Live stock	$	$ 15.65	
Repair to buildings	53.75	44.64	
Machinery and tools	1,653.16	273.46	
Seed and fertilizers	1,178.29	2,620.23	
Feed	640.44	351.38	
Labor	4,006.86	1,473.07	
Miscellaneous	37.49	81.89	
Total	$ 7,569.99	$ 4,860.32	12,430.31

DISBURSEMENTS—CONTINUED

	State Fund	Sanatorium Fund	Total
Dairy:			
Repairs to barn and silo	$	$ 10.73	
Live stock	290.55	180.41	
Fixtures	123.39	96.92	
Supplies	245.49	718.13	
Feed	4,717.38	4,403.78	
Labor	1,639.43	106.79	
Miscellaneous		3.00	
Total	$ 7,016.24	$ 5,519.76	$ 12,536.00
Miscellaneous:			
Landscape	$	$ 5.80	
Labor	206.50	.....	
Training school	115.20	45.51	
Telegraph and telephone	1,167.22	183.29	
Laundry	2,272.19	2,145.79	
Transfer and delivery	977.95	2,431,81	
Refund B. and T.	825.98	3,956.26	
Freight and express	2,164.84	386.62	
Hog account	424.99	220.42	
X-ray	1,213.62	513.84	
Total	$ 9,588.49	9,889.34	19,477.83
Total Disbursements			$283,417.90

GENERAL SUMMARY

Balance December 1st, 1920:			
Cash in drawer	$ 1,988.12		
" " Page Trust Co.	16,375.14		
" " Bank of Hoke	2,265.70		
Total		$ 20,628.96	
Outstanding Vouchers, Page Trust Co.	$ 11,917.41		
" Bank of Hoke	2,551.27		
Total outstanding		14,468.68	
True balance Dec. 1st, 1920		$ 6,160.28	
Received from State Appropriations	$234,821.15		
" " Sanatorium earnings	69,598.23		
" " Intertrading Accounts	6,637.04		
Total		311,056.42	
Total to account for			$317,216.70

DISBURSEMENTS

Permanent improvements	$115,642.32		
Extension fund	15,000.00		
Maintenance	85,000.00		
Total Appropriation expenditures		$215,642.32	
Maintenance from earnings		67,775.58	
Total Disbursements			283,417.90
Balance on hand			$ 33,798.80

Cash in office	1,583.02		
Cash in Page Trust Co.	45,392.69		
Cash in Bank of Hoke	9,176.58		
Total		$ 56,152.29	
Less outstanding vouchers:			
Page Trust Co.	21,756.13		
Bank of Hoke	597.36		
Total		22,353.49	
Balance			$ 33,798.80

RECONCILIATION OF CASH ACCOUNT

RECEIPTS

1920		
December	$ 7,817.91	
1921		
January	10,158.94	
February	5,914.04	
March	6,784.82	
April	5,609.29	
May	6,984.30	
June	6,054.49	
July	5,572.98	
August	5,171.18	
September	5,827.07	
October	5,105.76	
November	5,234.49	
Total Receipts		$ 76,235.27
Cash in Office December 1st, 1920		1,988.12
Total		$ 78,223.39

DEPOSITS BANK OF HOKE

1920		
December	$ 7,753.62	
1921		
January	9,848.07	
February	6,375.66	
March	5,754.46	
April	6,861.55	
May	6,887.28	
June	5,743.76	
July	5,914.05	
August	5,734.83	
September	5,038.52	
October	4,482.78	
November	6,245.79	
Total Deposits Bank of Hoke		76,640.37
Balance in drawer Dec. 1, 1921		$ 1,583.02

FIXED PROPERTIES

Real Estate:		
Hospital Grounds	$ 20,000.00	
Farms	34,750.00	
Total		$ 54,750.00
Buildings:		
Administration	$ 6,100.00	
Negro Sanatorium	5,553.48	

Nurses' Home	$ 10,200.00	
Superintendent's Residence	7,150.00	
Assistant Superintendent's Residence	2,260.50	
Assembly Hall and Dining Room	8,500.00	
Infirmary and New Administration Building	260,550.10	
Open Air Cottage No. 1	3,700.00	
Flanagan Cottage	6,731.84	
Servants' Quarters	6,253.65	
Snow Hill Cottage	1,750.00	
Physician's Residence	3,500.00	
Sunshine Cottage	3,500.00	
Farm Residence	3,804.03	
Dairy Buildings	26,205.08	
Total		$ 410,508.68
Power, Heat, Water and Light	$ 61,219.64	
Telephone System	3,440.37	
Sewer System and Disposal Plant	11,433.15	
Total		76,093.16
Total Fixed Properties		$ 541,351.84

INVENTORIES NOVEMBER 30, 1921

Farm Supplies	$ 878.75	
Farm Machinery and Equipment	2,902.65	
Farm Live Stock	900.00	
Total Farm		$ 4,681.40
Dairy Supplies	$ 7,129.15	
Dairy Live Stock	13,763.36	
Total Dairy		20,892.51
Hogs		2,889.40
Furniture and Fixtures Hospital	$ 14,830.45	
Furniture and Fixtures Dining Hall and Kitchen	2,993.00	
Furniture and Fixtures Supt. Residence	1,535.74	
Furniture and Fixtures Nurses' Home	1,050.00	
Total		20,409.19
Linen and Bedding	$ 2,917.50	
Crockery and Silver	303.75	
Drugs and Medicine	2,449.50	
Hospital Supplies and Equipment	7,231.40	
Provisions	3,162.60	
Training School Books	198.16	
Power, Heat, Water and Light	2,227.00	
Stereopticon Outfit	131.00	
Library	135.00	
Office Supplies, Business	150.00	
Office Equipment, Business	392.00	
Office Supplies, Extension	727.30	
Office Equipment, Extension	4,216.50	
Laboratory and Med. Office Equipment	7,328.41	
Transportation and Drayage	2,500.00	
Total		34,070.12
Total Inventories		$ 82,942,62

RECONCILIATION OF BANK BALANCES

December 1st, 1920, to November 30th, 1921

BANK OF HOKE, RAEFORD, N. C.

Balance in bank as shown on Pass Book, December 1, 1920	$ 2,265.70	
Deposited during period	76,640.37	
Total		$ 78,906.07
Vouchers outstanding December 1, 1920	2,551.27	
Vouchers drawn during period	67,775.58	
Total		$ 70,326.85
Balance December 1, 1921		$ 8,579.22

BANK RECONCILIATION

Balance in bank as per Pass Book, December 1, 1921	$ 9,176.58	
Outstanding vouchers December 1, 1921	597.36	
Balance		$ 8,579.22

OUTSTANDING CHECKS

No. 2,139	$ 7.60
" 179	3.63
" 692	2.77
" 306	7.45
" 746	17.00
" 1,120	558.91
Total	$597.36

RECONCILIATION OF BANK BALANCES

December 1st, 1920, to November 30th, 1921

PAGE TRUST COMPANY, ABERDEEN, N. C.

Balance in bank December 1, 1920	$ 16,375.14	
Deposited by State Treasurer	234,821.15	
Total		$251,196.29
Outstanding vouchers December 1, 1920	$ 11,917.41	
Vouchers drawn during period	215,642.32	
Total		227,559.73
Balance December 1, 1921		$ 23,636.56

BANK RECONCILIATION

Balance December 1, 1921	$ 45,392.69	
Less outstanding vouchers	21,756.13	
Balance		$ 23,636.56
Total amount outstanding checks	$21,756.13	

TRIAL BALANCE DECEMBER 1, 1921

	Dr.	Cr.
Surplus		$562,497.42
Real Estate:		
Hospital Grounds	$ 20,000.00	
Administration Building	6,100.00	
Negro Sanatorium	5,553.48	
Nurses' Home	10,200.00	
Superintendent's Residence	7,150.00	
Assistant Superintendent's Residence	2,260.50	
Assembly and Dining Halls and Kitchen	8,500.00	
New Well	7,922.17	
Infirmary	260,550.10	
Open Air Cottage No. 1	3,700.00	
Open Air Cottage No. 2	6,731.84	
New Power Plant	557.44	
Servants' Quarters	6,253.65	
Snow Hill Cottage	1,750.00	
Physicians' Residence	3,500.00	
Repairs to Old Buildings	13,752.71	
Farm Supplies and Expense	878.75	
Farms	34,750.00	
Farm Machinery and Equipment	2,902.65	
Farm Live Stock	900.00	
Farm Residence	3,804.03	
Dairy Supplies and Expense	7,129.15	
Barns, Silo, Bottling Plant and Equipment	26,205.08	
Dairy Live Stock	13,763.36	
Hog Account	2,889.40	
Furniture and Fixtures:		
Hospital	14,830.45	
Dining Hall and Kitchen	2,993.00	
Superintendent's Residence	1,535.74	
Nurses' Home	1,050.00	
Linen and Bedding	2,917.50	
Crockery and Silver	303.75	
Drugs and Medicine	2,449.50	
Hospital Supplies and Equipment	7,231.40	
Provisions	3,162.60	
Training School Books	198.16	
Power, Heat, Light, etc.	53,297.47	
Telephone System	3,440.37	
Stereopticon Outfit	131.00	
Library	135.00	
Office Supplies, Business	150.00	
Office Equipment, Business	392.00	
Office Supplies, Extension	727.30	
Office Equipment, Extension	4,216.50	
Laboratory and Medicine, Office Equipment	7.328.41	
Transportation and Drayage	2,500.00	
Sewer System and Disposal Plant	11,433.15	
Reserve for Depreciation		19,286.38
Landscape	939.10	
Permanent Improvement		7,247.75
Extension		197.50
Cash	1,583.02	
Bank of Hoke	8,579.32	
Totals	$589,229.05	$589,229.05

ANNUAL REPORT

OF THE

NORTH CAROLINA TUBERCULOSIS ASSOCIATION

1921

REPORT OF MANAGING DIRECTOR

This has been the outstanding year in the history of our Association. The most important feature was the medico-sociologic meeting at Greensboro, October 6th and 7th, 1921—a largely attended and enthusiastic meeting. Every session was good and *very* good, but the luncheon, pay-as-you-go, in the Y. W. C. A. Hut, given by the ladies of the local association known as the District Nurse and Relief Committee, really reached the high light of the meeting, the central theme being the Guilford County Sanatorium.

Another feature that should be specifically mentioned was the attendance of the National Tuberculosis Association officials; the President, Dr. James Alexander Miller; the Managing Director, Dr. Charles J. Hatfield; and the Administrative Secretary, Mr. Frederick D. Hopkins. They delivered a number of addresses that were well received and their very presence added inspiration and enthusiasm, while it served also the purpose of getting acquainted with them and their getting acquainted with us.

Largest Seal Sale in History of Association.—This meeting, too, we believe, helped us to give to those present, who were interested, a close-up view of the Seal Sale, which was evidenced by the largest sale in December, 1921, of any year.

Bonds and Taxes Voted for Two County Sanatoria.—Another outstanding thing of the year was the voting of $100,000 in bonds and tax of five cents on the $100 in Guilford County, December 20th, 1921. There is no doubt that the meeting, and the luncheon particularly, was the match that lighted the fuse and started a movement for a bond election in the near future. Following this on February 9th, 1922, a bond election for $150,000 and maintenance tax of eight cents on the $100 of assessed property was voted in Gaston County. The interest in this last tuberculosis hospital dates, so far as we know, to the first tuberculosis clinic in Gaston County, held by our Clinic Physician, Dr. J. L. Spruill. This was followed by visits by your Managing Director; also Dr. P. P. McCain. As an evidence of the interest of the cotton mills in this proposition, we might relate the following incident as worthy of mention: At a mass-meeting in Gastonia, called to discuss the advisability and probability of a county tuberculosis hospital, attended by your Managing Director and Clinic Physician, the matter of financing the proposition was under discussion, and your Managing Director recommended a bond issue and maintenance tax. Colonel Armstrong, dean of the cotton mill presidents,

unhappily now deceased, arose and stated that he would speak for the cotton mills of Gaston County and say they favored the proposition, and it mattered not whether the funds were received by taxation or voluntary contributions, the cotton mills would pay 75% of the cost in either event.

Passes for Dr. Spruill.—We have endeavored to secure passes on all the railroads for our Clinic Physician, but so far only the Seaboard and C. C. & O. have responded. This is very valuable and is duly appreciated.

The Mail Sale.—We sent out 35,000 letters containing one hundred seals and kindly requested that the recipient return to us in the enclosed stamped envelope one dollar or the one hundred seals. These seals for the very large part went into rural territory where seals had never been sold before, which probably accounts for the fact that only one letter out of six and a half brought the dollar. We sent letters to two hundred fourth-class postmasters in small towns where we could not secure a chairman or an adequate list for mail sale purposes. The post masters were requested to sell the seals and remit the money. We received approximately $300 in this way.

Durham.—The Civic League at Durham has been seals agent heretofore, and Mrs. T. D. Jones of Durham is a member of our Board of Directors. We were unable to get this Civic League to secure a chairman. Your Managing Director visited Durham, returning from a meeting of the Second District Medical Society at Greenville. I was making my way from Raleigh to Durham when the motor bus stripped its gear and left us high but not dry, as the rain was descending in torrents. On this account I was late for my engagement and the ladies had gone out to tea, et cetera. I had an engagement with the State Board of Medical Examiners in Greensboro that night and could not wait longer than train time for a conference. I saw Dr. A. Cheatham, City and County Health Officer; the Superintendent of Schools; County Welfare Officer, and others. On my return to Sanatorium we mail-saled the City of Durham, using the telephone directory for names and addresses, and sent out about 2,500 letters with one hundred seals in each, which brought us in $774.00.

Motion Picture Car for Negroes.—This has continued to be of distinct value, and as per my previous report to the Executive Committee, the comparative report for the two years is as follows:

	1919	*1920*
Number reached in health entertainments and lectures by E. T. Ransom	49,262	67,687
Seals sold	$5,132.48	$5,253.13
Expense Moving Picture Car	5,786.98	5,474.67
Expense other work among Negroes	3,104.92	3,366.36

The negroes have sold more seals this year than any other year, the comparative statement being as follows:

1919....$5,132.48 1920....$5,253.13 1921....$5,810.51

The Executive Committee felt that with the smaller amount of money in hand this year, compared with last, it would be better to wait and see the final results of the seal sale before proceeding with the movie car, and that matter will be for your determination.

Loan to Public Health Nurses.—There has been a loan fund of $1,000 since 1920. This loan was for graduate nurses who desired to take a course in public health nursing, but on account of lack of available funds could not do so. We have made only one loan, which was to Miss Alice B. Casey, who not only agreed to repay the loan at the end of a year, but agreed to do public health nursing in this State for one year after her graduation. Miss Casey began work in Lumberton, North Carolina, later leaving there, and we have been unable to get in touch with her since. It would seem that it is hardly necessary to continue this appropriation.

Finances.—While this has been the largest Seal Sale in the history of the Association, giving us some $6,000 more than in 1920, yet we had at that time an outstanding loan to the North Carolina Sanatorium of $8,745, which was repaid during the year. This sum added to the total receipts of the Executive office gave us in round numbers $24,000 for work during the past year. This year we have no bills receivable, and the total receipts of the Executive office will be only slightly in excess of $17,000, which means that we have $7,000 less to spend this year than last. Our budget will have to be arranged accordingly. The following items of expense are necessary if the Seal Sale is to be conducted in 1922 (the amount allowed for campaign expense is the irreducible minimum that will have to be spent before receipts for 1922 begin coming in):

Campaign expenses	$5,000.00
Modern Health Crusade	1,000.00
Salary Managing Director	1,200.00
Miscellaneous expenses, stamps, express, stationery, etc...	800.00
which gives a total of	$8,500.00

and leaves the same amount to be used as authorized by the Board of Directors, as far as funds permit, for the following purposes:

Bulletin	$1,000.00
Clinic Physician	4,200.00
Moving picture service	3,000.00
Salary 1 month for supervisors	2,750.00
Research work	1,000.00
Total	$11,950.00

The expenses for the services mentioned are figured at the minimum and it is only under the most favorable conditions that they will

be as low. It is therefore apparent that we lack at least $3,450 to continue the work the Association has been doing.

The $1,000 suggested for publication of Bulletin is, we consider, very important. For three years the State Board of Health has given the Association and the Bureau of Tuberculosis either the November or December official Health Bulletin as an exclusively tuberculosis Bulletin. Each year we have increased the Bulletin by sixteen pages, making a thirty-two page Bulletin, the State Board of Health paying for sixteen pages and the Association paying for sixteen. As the Bulletin goes into over 50,000 homes, and we understand is generally read, we consider it one of the best investments that we can make, especially so as the Bulletin reaches the people just before the Tuberculosis Christmas Seals are placed on sale.

The importance of using at least $4,200 for clinic work is apparent. The scope of work should be enlarged and we believe the psychological time is now, if we are to reap the full benefit of the last two years work.

The $3,000 will probably operate the picture truck this year. Unless we give this service to the colored people we can hardly expect their support in the Seal Sale next year, which will mean a loss in revenue of over $5,000. By using $2,750 to pay part salary for one month to thirty-eight supervising teachers of rural colored schools, we secure approximately one-sixth of their time. They conduct the Seal Sale among the colored people; organize the Modern Health Crusade; make arrangements for the moving picture shows; give talks and illustrated lectures on tuberculosis, and assist in teaching the known cases how to prevent the infection of others.

A discussion covering the research work will be welcome.

Community Chests.—It is possible that the community chest will interfere with the Seal Sale unless the committee in charge of said chests, and the community, can be made to understand the State and nation-wide scope of tuberculosis work supported by the sale of seals. It did hurt the sale in Asheville last year, psychologically, because the people felt that they had absolved themselves from all things of the kind for the year and because the people, and possibly members of the committee, did not understand that the Seal Sale was not included in the chest, although Dr. Dunn and your Managing Director had both interviewed the chairman of the committee and had been assured that the Seal Sale would be taken care of, and we are quite sure that he thought he had done so. Greensboro has since adopted the community chest idea and Wilmington has it under consideration at this time.

Respectfully submitted,

L. B. McBRAYER,
Managing Director.

March 27th, 1922

REPORT OF AUDIT

North Carolina Tuberculosis Association,
Sanatorium, North Carolina.

Gentlemen:

I hereby certify that I have examined the books and accounts, including receipts, disbursements and bank balances of the North Carolina Tuberculosis Association as kept by its Managing Director and its Treasurer, Dr. L. B. McBrayer, for a period beginning April 1st, 1920, and ending March 18th, 1922, and I find same to be correct in every detail, and the bank balances at the Page Trust Company agree with the bank balances as shown on the books of the Association.

Respectfully submitted,

J. J. Bernard,
Certified Public Accountant.

NORTH CAROLINA TUBERCULOSIS ASSOCIATION

REPORT OF 1921 SEAL SALE

Total value of seals sold	$ 40,572.73	
Total value of bonds sold	2,080.00	
Total value all paper sold		$ 42,652.73
Sold by local chairmen	30,284.68	
Sold by colored chairmen	5,810.51	
Sold by mail sale	6,557.54	
		$ 42,652.73
Total value of seals sold		$ 42,652.73
Kept by local chairmen		$ 20,494.08
		$ 22,158.65
Kept by local chairmen	$ 20,494.08	
Receipts Ex. Office, white chairmen	$ 9,790.60	
Receipts Ex. Office, colored chairmen	5,810.51	
Receipts Ex. Office, mail sale	6,557.54	$ 22,158.65
Receipts Executive Office		$ 22,158.65
Expenses:		
Salaries and wages	$ 1,661.75	
Stationery, literature, seal supplies	2,979.04	
Postage	2,227.51	
All other expense	75.00	
	$ 6,943.30	
5% due National Association	2,132.69	9,075.99
Net Receipts Executive Office		$ 13,082.66

Receipts 1913	$ 5,253.07	Receipts Ex. Office	$ 1,613.22	Exp.	$ 696.81
" 1914	6,745.22	" " "	2,160.05	"	1,235.72
" 1915	8,033.86	" " "	2,636.01	"	1,590.43
" 1916	12,078.74	" " "	4,786.33	"	2,750.56
" 1917	17,541.02	" " "	8,036.43	"	3,311.87
" 1919	42,407.18	" " "	23,408.53	"	8,528.18
" 1920	36,728.38	" " "	18,062.81	"	7,774.04
" 1921	42,652.73	" " "	22,158.65	"	9,075.99

FINANCIAL STATEMENT FOR THE FISCAL YEAR ENDING FEBRUARY 19, 1922

RECEIPTS

Balance on hand as per report submitted at Annual Meeting February 28, 1921	$ 4,380.27
Received from sale of Crusade supplies	627.57
Receipts colored chairmen	5,810.51
Receipts white chairmen	9,790.60
Receipts mail sale	6,557.54
Commission from sale of scales	3.00
Transferred from savings account	13,000.00
Interest on above	279.89
Donations U. D. C., Leaksville	5.00
Loans repaid by North Carolina Sanatorium	8,745,00
Total receipts	$ 49,199.38

DISBURSEMENTS

Publicity Director	$ 375.00	
Publication of bulletins	1,123.52	
Campaign expenditures	6,943.30	
Clinic Physician	4,102.23	
X-Ray equipment	650.00	
Negro moving picture service	3,198.17	
Negro health work	3,394.06	
Expense Executive Committee Meeting	341.99	
Research work	11.50	
Modern Health Crusade	1,597.47	
Salary Managing Director	1,200.00	
Transferred to savings account	18,000.00	
Miscellaneous expenses	6,265.23	47,202.47
Balance at Merchants and Farmers Bank, March 10, 1922		$ 1,996.91

ASSETS

March 10	Balance checking account	$ 1,996.91
	Balance savings account	15,000.00
	Due from sale of Crusade supplies	628.00
	Total cash assets	$ 17,624.91

INVENTORY

1 Dodge Truck	$ 100.00
1 Dodge Truck	500.00
1 Delco	150.00
1 moving picture machine	75.00
12 sets lanterns and slides	360.00
2 stacks filing cabinets	90.00
Crusade supplies	500.00

NINTH REPORT

OF THE

North Carolina Sanatorium for the Treatment of Tuberculosis

UNDER CONTROL OF STATE BOARD OF HEALTH

SANATORIUM, N. C.

FOR THE PERIOD

FROM DECEMBER 1, 1921, TO JUNE 30, 1922

RALEIGH, N. C.
EDWARDS & BROUGHTON PRINTING COMPANY
STATE PRINTERS
1923

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LETTER OF TRANSMITTAL

Dr. W. S. Rankin, *Secretary,*
State Board of Health,
Raleigh, N. C.

My Dear Doctor:—I hereby transmit to you, and through you to the State Board of Health and the Governor and General Assembly, a report, being the ninth report of the North Carolina Sanatorium for the Treatment of Tuberculosis, for the period from December 1, 1921, to June 30, 1922.

Very respectfully yours,
L. B. McBrayer, M.D., F.A.C.P.,
Superintendent.

NINTH REPORT

OF THE

NORTH CAROLINA SANATORIUM FOR THE TREATMENT OF TUBERCULOSIS

SANATORIUM, N. C.

UNDER CONTROL OF

THE STATE BOARD OF HEALTH

We are pleased to report continued improvement and progress.

MEDICAL WORK

Our medical work has expanded and improved steadily, as our facilities for doing good work has been increased. Every member of the staff keeps fully abreast of the advances in medicine generally, because often a patient does not die from tuberculosis alone, but from any one or several of the many diseases that afflict mankind, which diseases, if cured, would leave the patient "free to get well of tuberculosis." Our laboratory has increased in usefulness as facilities for work have been provided in the completion of the main building, and our routine laboratory work is in a general way equal to the best. Our X-ray laboratory has continued to extend its usefulness and we are now doing much X-ray therapy in addition to the diagnostic work. The opening and furnishing of our operating room has added greatly to the thoroughness of our work.

Our patients seem more contented and happier since our buildings are more modern and more comfortable. We are looking forward with much pleasure to the completion of our new auditorium, dining rooms, kitchen, bakery, cold storage, etc., which are now rapidly taking form.

Religious services have been conducted on an average of twice a month by nearby ministers. We are especially indebted to Rev. O. A. Keller, of the Baptist Church, Aberdeen, Rev. Eugene Alexander, of the Presbyterian Church, Montrose, and Rev. Euclid McWhorter, of the Methodist Church, Aberdeen. In addition, Sunday School is held every Sunday evening and other services at intervals.

Many entertainments and recreations of various kinds have been gotten up by the patients or the patients in collaboration with some one or

several members of the staff—the woman's club of Sanatorium having frequently been the promoter of such entertainments.

The attitude of the people of the State generally toward the tuberculosis problem is more and more showing an intelligent interest in the treatment and prevention of tuberculosis, which is due in large measure to the educational work of the Extension Department and the State Tuberculosis Association, which association works in coöperation with us along the same general lines.

FARM, DAIRY AND HOGS

Our farm is in very much better shape than ever before and will continue to improve. Our methods of bookkeeping enable us to show a profit and loss account on the farm, and for the past few years the farm always shows a nice profit, and, too, furnishes fresh vegetables and fruits in season that for the most part could not be had until from a few to ten or twelve days old.

Our dairy plant and herd continue to be models for the State and furnish a quality of milk that could not otherwise be had. The dairy is the most profitable part of the entire farming operations.

The herd of hogs, now numbering more than one hundred, has been built up from one herd sire and two matrons, and in addition furnishes the table with from two hundred to four hundred pounds of pork every week in the year, and can be easily increased to take care of any increased number of patients. We are using the Berkshire breed. We leased our herd sire to Pinehurst Farms, in return for a similar favor from Mr. Tufts, and while Mr. Tufts was the temporary owner of our herd sire, he won Grand Champion Prize with him at the State Fair, 1921. At the Southern Berkshire Congress, at Pinehurst, 1922, we won some forty-five dollars in premiums on six of our hogs with only two days preparation.

NORTH CAROLINA SANATORIUM

FOR THE TREATMENT OF TUBERCULOSIS

Under the Control of the State Board of Health

PERSONNEL

MEMBERS STATE BOARD OF HEALTH

Dr. J. Howell Way, *President*.....Waynesville
Dr Richard H Lewis.....Raleigh
C. E. Waddell, C. E.....Asheville
Dr. A. J. Crowell.....Charlotte
Dr. Thomas E. Anderson.....Statesville
Dr Charles O'H Laughinghouse.....Greenville
Dr. Edward J. Wood.....Wilmington
Dr. E. J. Tucker, D.D.S.....Roxboro
Dr. Cyrus Thompson.....Jacksonville

Dr. W. S. Rankin, *Secretary and State Health Officer*, Raleigh

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Superintendent.....L. B. McBrayer, M.D., F.A.C.P.
Assistant Superintendent.....P. P. McCain, A.B., M.D.
Assistant Physician.....S. M. Bittinger, M.D.
Director Laboratories.....R. McBrayer, A.B., M.D.
Office of Secretary.....A. W. Snow
Private Secretary to the Superintendent.....Mrs. H. O. Sink
Technician.....J. Ward Hicks
Assistant Technician.....Miss Maude Mann
Superintendent of Nurses.....Miss E. Connolly
Assistant Superintendent of Nurses.....Miss Mattie Yates
Cashier.....L. Redd
Steward.....J. B. Webster
Farm Manager.....L. B. McBrayer, Jr.

EXTENSION DEPARTMENT OF THE NORTH CAROLINA SANATORIUM FOR THE TREATMENT OF TUBERCULOSIS

Bureau of Tuberculosis, State Board of Health

Director of Bureau.....L. B. McBrayer, M.D., F.A.C.P.
Assistant Chief of Bureau.....P. P. McCain, A.B., M.D.
Office Secretary.....A. W. Snow
Stenographer, Head.....Mrs. H. O. Sink
Stenographer.....Miss Mary Snead
Stenographer.....Miss Grady Ingle
Stenographer.....Miss Sibyl Brabble
Stenographer.....Mrs. J. L. Spruill
Clerk.....H. O. Sink
Director Organization and Education Among the Negroes.....Florence C. Williams

CONSULTING STAFF

Surgery	DR. GEO. W. PRESSLY	Charlotte
	DR. J. F. HIGHSMITH	Fayetteville
Eye, ear, nose and throat	DR. JAS. M. LILLY	Fayetteville
	DR. M. LeR. SMOOT	Fayetteville
	DR. WM. S. JORDAN	Fayetteville
Genito-urinary	DR. A. J. CROWELL	Charlotte
	DR. J D. HIGHSMITH	Fayetteville
Pathology	DR. JAS. B. BULLITT	Chapel Hill
Pharmacology	DR. WM. deB. MACNIDER	Chapel Hill

PERSONNEL

NORTH CAROLINA TUBERCULOSIS ASSOCIATION

MRS. GORDON FINGER, *President*	Charlotte
MRS. CHAS. R. WHITAKER, *Vice-President*	Hendersonville
DR. L. B. MCBRAYER, *Managing Director and Secretary-Treasurer*	Sanatorium
DR. J. L. SPRUILL, *Clinic Physician*	Sanatorium
A. W. SNOW, *Assistant Secretary*	Sanatorium
DR. E. T. RANSOM, *Moving Picture Exhibitor and Lecturer*	Sanatorium

DIRECTORS

DR. OTHO ROSS	Charlotte
MRS. CUTHBERT MARTIN	Wilmington
MRS. W. N. HUTT	Southern Pines
MRS. T. D. JONES	Durham
DR. C. L. MINOR	Asheville
MR. R. B. WILSON	Raleigh
DR. R. L. CARLTON	Winston-Salem
DR. J. DONNOLLY	Charlotte
MRS. C. C. HOOK	Charlotte
DR. W. L. DUNN	Asheville
COL. J. L. LUDLOW	Winston-Salem
MRS. MARK QUINNERLY	Greenville
MRS. S. H. BROWN	Oxford
MR. HAMILTON C. JONES	Charlotte
MRS. HOWARD RONDTHALER	Winston-Salem
MRS. C. J. TINSLEY	Greensboro
MRS. MAX T. PAYNE	Greensboro
MRS. M. E. ROBINSON	Goldsboro

NINTH REPORT

OF THE

NORTH CAROLINA SANATORIUM FOR THE TREATMENT OF TUBERCULOSIS

SANATORIUM, N. C.

UNDER CONTROL OF

THE STATE BOARD OF HEALTH

SUMMARY OF SEVEN MONTHS WORK

December 1, 1921—June 30, 1922.

Letters and postals received		26,262
Letters written:		
Individual	8,660	
Multigraph	57,273	
Total		65,933
Articles written (approximate number of words):		
Newspaper	11,050	
Bulletin	750	
Official pamphlets	16,000	
Other publications	126,550	
Total		154,350
Articles copied (approximate number words)		596,960
Forms and placards prepared		80
Total number copies of forms and placards		24,002
Blank cards mailed for reporting cases of tuberculosis		2,817
Number of cases reported:		
White	705	
Colored	651	
Total		1,356
Literature sent to reported cases		2,857
Other literature sent out		15,624
Crusaders enrolled		24,045
Sample crusade literature		38
Sputum cups distributed		104,100
Tuberculin sent physicians for von Pirquet diagnostic test		224
Blanks for reporting results of von Pirquet diagnostic test		224
Patients' histories written		375
Approximate number of words in patients' histories		376,200
Envelopes addressed		72,101
Enclosures sent out		169,010
Outside patients examined		440

REPORT OF L. B. MCBRAYER, M.D., F.A.C.P.

Days out of office	32
Addresses delivered	12
Number in audiences	1,100
Consultations and conferences	698

REPORT OF P. P. MCCAIN, A.B., M.D.

Days out of office	20
Papers read	2
Number in audiences	290

REPORT OF R. MCBRAYER, A.B., M.D.

Days out of office	19
Papers read	2
Number in audiences	130
Conferences	7

EXTENSION WORK

SUMMARY OF WORK AMONG THE NEGROES

December 1, 1921—June 30, 1922

Number reached by Mrs. Williams and colored supervisors in health lectures	171,485
Number reached by Dr. E. T. Ransom by lectures and health educational moving pictures	12,054

REPORT OF X-RAY LABORATORY

Stereoroentgenograms of chests (Sanatorium patients)	305	
Stereoroentgenograms of chests (outside patients)	227	
Flat plates of other parts of body	77	
Total		609
X-ray therapy		97
Gastro-intestinal studies		15

TUBERCULOSIS CLINICS

J. L. SPRUILL, M.D., CLINICIAN

December 1, 1921—June 30, 1922

Number of days in clinics		120
Number addresses given		48
Total audiences		8,200
Number of positive cases	328	
Number of negative cases	668	
Number of suspicious cases	105	
Total number of examinations		1,101
Examinations by inspection		0 2

SPECIAL EXAMINATIONS OF CHILDREN

Number examined	144
Number given von Pirquet test	144
Positive to von Pirquet test	133
Negative to von Pirquet test	8
Questionable	3

MEDICAL REPORT, 1922

STATISTICAL

Number of patients to be reported on	201
Number not classified	8
Number not tubercular	19
Number of patients in Sanatorium, July 1, 1922	151
Total number patients treated during the seven months	379

30 PATIENTS WHO STAYED LESS THAN 30 DAYS

Condition on Admission		Condition on Discharge					
		Arrested	Apparently Arrested	Quiescent	Improved	Unimproved	Died
Incipient	4	0	0	0	4	0	0
Moderately advanced	9	0	0	0	9	0	0
Far advanced	17	0	0	0	6	9	2
Acute tuberculosis	0	0	0	0	0	0	0
Total	30						

TOTAL NUMBER DAYS, 507. AVERAGE STAY, 16.9 DAYS. LONGEST STAY, 29 DAYS. SHORTEST STAY, 3 DAYS.

Number Gained Weight, 17		Number Lost Weight, 5	
Average gain	3.5 Lbs.	Average loss	2.7 Lbs.
Largest gain	10.0 Lbs.	Largest loss	5.0 Lbs
Smallest gain	.5 Lb	Smallest loss	.5 Lb
Stationary	5	Not weighed	3

41 PATIENTS WHO STAYED 30 TO 89 DAYS

Condition on Admission		Condition on Discharge					
		Arrested	Apparently Arrested	Quiescent	Improved	Unimproved	Died
Incipient	7	0	0	2	4	1	0
Moderately advanced	7	0	0	3	4	0	0
Far advanced	27	0	0	1	10	14	2
Acute tuberculosis	0	0	0	0	0	0	0
Totals	41						

TOTAL NUMBER DAYS, 2,417. AVERAGE STAY, 58.9 DAYS. LONGEST STAY, 89 DAYS. SHORTEST STAY, 30 DAYS.

Number Gained Weight, 25		Number Lost Weight, 13	
Average gain	6.1 Lbs.	Average loss	5. Lbs.
Largest gain	24. Lbs.	Largest loss	15.25 Lbs.
Smallest gain	.50 Lb.	Smallest loss	.50 Lb.
Stationary	2	Not weighed	1

130 PATIENTS WHO STAYED 90 DAYS OR MORE

Condition on Admission		Condition on Discharge					
		Arrested	Apparently Arrested	Quiescent	Improved	Unimproved	Died
Incipient	34	2	19	12	1	0	0
Moderately advanced	47	0	2	34	10	1	0
Far advanced	48	0	0	10	17	18	3
Acute tuberculosis	1	0	0	0	0	1	0
Totals	130						

TOTAL NUMBER DAYS, 22,733. AVERAGE STAY, 174.8 DAYS. LONGEST STAY, 464 DAYS. SHORTEST STAY, 90 DAYS

Number Gained Weight, 107		Number Lost Weight, 21	
Average gain	14.02 Lbs.	Average loss	8.01 Lbs.
Largest gain	45.50 Lbs.	Largest loss	26.50 Lbs.
Smallest gain	1.25 Lbs.	Smallest loss	1 Lb.
Stationary	2		

HISTORY OF HEMORRHAGE

Negative		126
Positive	Previous only	68
	Previous and during residence	5
	During residence only	2
Total		201

RESULTS OF SPUTUM EXAMINATIONS

Negative or no sputum		90
Positive	On admission	106
	During residence	90
	On discharge	76

COMPLICATIONS

Adenitis	2	Hemorrhoids	3	Oaphoritis	1
Alveolar abscess	5	Hookworm	3	Orchitis	1
Anal fistula	7	Hyperthyroidism	6	Peritonitis	1
Appendicitis	2	Laryngitis	39	Pott's disease	1
Arthritis	3	Lues	4	Pregnancy	1
Asthma	2	Meningitis	1	Pyorrhea	1
Bronchitis	3	Melancholy	1	Spontaneous pneumo-thorax	1
Broncho-Pneumonia	4	Mitral regurgitation	1	Tibal fracture	1
Enteritis	15	Morphinism	1	Tonsilitis	4
Gall Bladder Disease	1	Nephritis	8	Ulcerated cervicitis	1
Gastritis	1	Otitis media	8	Varicocele	1
Hernia	3				

SEX, AGE AND CIVIL CONDITION

Sex	Age						Civil Condition		
	8-19	20-29	30-39	40-49	50-59	60-70	Single	Married	Widowed
Male 80	12	26	29	11	2	0	35	42	3
Female 121	16	55	27	14	9	0	44	61	16
Total 201	28	81	56	25	11	0	79	103	19

NATIONALITY

AMERICAN, 201

OCCUPATIONS

Auto salesman	1	Employees, cotton mill	16	Minister	1
Barber	1	Employees, hosiery	5	Nurse, practical	1
Blacksmith	1	Employees, tobacco factory	1	Painter	1
Bookkeepers	2	Farmers	19	Policeman	1
Carpenters	5	Glass blower	1	Railway conductors	2
Chauffeur	1	Housekeepers	13	Railway brakeman	1
Children	2	Housewives	64	Stenographers	7
Clerks in office	11	Mail carriers	2	Students	13
Clerks in store	4	Merchants	7	Teachers	6
Day laborers	3	Mill foreman	1	Telephone operators	2
Dentist	1	Milliner	1	Traveling salesmen	4

COUNTIES FROM WHICH 201 PATIENTS CAME

Alamance	7	Forsyth	3	Person	1
Anson	1	Gaston	2	Pitt	1
Bertie	2	Granville	3	Polk	2
Buncombe	1	Guilford	11	Randolph	4
Burke	2	Halifax	6	Richmond	5
Cabarrus	7	Hoke	1	Robeson	3
Caldwell	1	Iredell	1	Sampson	1
Carteret	2	Johnston	6	Scotland	1
Caswell	1	Lee	3	Stanly	7
Catawba	12	Lenoir	4	Surry	7
Chatham	1	Madison	1	Transylvania	1
Cleveland	1	Martin	2	Tyrrell	1
Columbus	4	Mecklenburg	2	Union	1
Craven	1	McDowell	1	Vance	8
Cumberland	6	Montgomery	2	Wake	11
Davidson	1	Moore	3	Warren	1
Davie	1	Nash	3	Watauga	5
Duplin	1	Northampton	2	Wayne	12
Durham	7	Orange	1	Wilson	3
Edgecombe	2	Pasquotank	6	Yancey	1
Franklin	1				

TOWNS FROM WHICH 201 PATIENTS CAME

Araratt	1	Hamlet	3	Randleman	1
Albemarle	6	Hemp	1	Revere	1
Aulander	1	Henderson	7	Rose Hill	2
Belmont	2	Hickory	8	Roanoke Rapids	1
Benson	1	High Point	5	Robersonville	1
Biscoe	1	Hope Mills	1	Rockingham	2
Blowing Rock	1	Jamesville	1	Rocky Mount	2
Boardman	2	Kinston	3	Rosemary	1
Boone	3	Kittrell	1	Roxboro	1
Booneville	1	Landrum	1	Sanford	3
Brevard	1	Laurel Hill	1	Scotland Neck	3
Burlington	6	Laurinburg	1	Seven Springs	1
Cana	1	Lenoir	1	Shelby	1
Candler	1	Lexington	1	Siler City	1
Cardenas	1	Lumberton	3	Smithfield	3
Campo Bello	1	Marion	1	Southern Pines	1
Chapel Hill	1	Marshville	1	Spring Hope	1
Charlotte	2	Mebane	1	State Road	1
Clayton	1	Morehead City	2	Stedman	1
Columbia	1	Morganton	1	Statesville	1
Conetoe	1	Morrisville	2	Tarboro	1
Concord	6	Mount Airy	3	Vineland	1
Durham	5	Mount Olive	1	Wadeville	1
Dysartville	1	Morven	1	Wake Forest	2
Elease	1	New Bern	1	Warrenton	1
Elizabeth City	6	New Hill	1	Weldon	1
Elkin	1	Newton	4	White Plains	1
Elm City	1	New London	2	Whitsett	1
Farmville	1	Oxford	3	Willow Springs	1
Fayetteville	3	Pikeville	1	Wilson's Mills	1
Four Oaks	1	Pink Hill	1	Wilmington	1
Fuquay Springs	1	Powellsville	1	Wilson	2
Garysburg	2	Putnam	1	Winston-Salem	3
Goldsboro	9	Raeford	1	Yanceyville	1
Greensboro	5	Raleigh	4	Zebulon	1
Hallsboro	1	Ramseur	2		

LABORATORY REPORT

Sputanalyses: Micro	1,309
Sputanalyses: Chem	325
Urinalyses: Micro	553
Urinalyses: Chem	825
Blood tests	1,596
Feces	299
Fractional ewalds	113
Vaginal smears	48
Phthalein	207
Gastric analyses (hcl. only)	24
CO_2 tension	40
Barium meals	1
Guinea pigs, injected	38
Guinea pigs, autopsied	5
Rabbits injected	6
Slides from pig glands	5
Basal metabolic rate	70
Spinal fluid	2
Secretion from eye	1
Pleural fluid	8
Throat swab	2
Glucose tolerance	2
Excised muscle for trichinella spiralis	1
Total examinations	5,480

LITERATURE OF THE BUREAU OF TUBERCULOSIS OF THE NORTH CAROLINA STATE BOARD OF HEALTH

Title of Bulletin

Bulletin No. 61. How to Care for a Tuberculous Patient.

Bulletin No. 70. Tuberculosis: (A. M. A. Bulletin.)

Bulletin No 92. An Act to Prevent the Convicts or Prisoners of North Carolina from Contracting Tuberculosis.

Bulletin No. 129. County Tuberculosis Problem.

Bulletin No. 1000. If There is to be Democratic Equality of Opportunity, There must be an Equal Opportunity for Health.

Bulletin No. 1001. Murder! (Perfectly Legal.)

Bulletin No. 1003. Fundamental Principles of Public Health Nursing.

The Next to Go.

The Story of Four Generations.

Is Your Muffler Working or Your Cut-out Open?

They Are Dead.

The Incidence and the Importance of Pleurisy in Early Tuberculosis, by Dr. P. P. McCain, Sanatorium, N. C.

PERSONS FROM WHOM DONATIONS WERE RECEIVED

Magazines and Clothing	Miss H. M. Child	Amesbury, Mass.
	Mrs. F. C. Brush	*Chairman*, All Souls Church, Montclair, N. J.
	Mr. Neill Cole	Raeford, N. C.
Children's Clothing	Mrs. J. D. Armstrong	Pinehurst, N. C.
Victrola Repairs	Mrs. Wm. B. Merrill	Pinehurst, N. C.
Sunday School Literature	Miss Grace McKinnon	Bennettsville, S. C.
Piano	Miss Josephine E. Chapin, *Chairman of Committee*,	Pinehurst, N. C.
	Mrs. W. B. Merrill	Pinehurst, N. C.
	Mr. I. C. Sledge	Pinehurst, N. C.
	Mr. Leonard Tufts	Pinehurst, N. C.
Toys	Mrs. Rebe Hill Shields	Scotland Neck, N. C.

ORGANIZATIONS SUPPORTING PATIENTS

		No. of Patients
Tuberculosis Association	Henderson, N. C.	2
Red Cross	Kinston, N. C.	1
Tuberculosis Association	Goldsboro, N. C.	5
Presbyterian Orphanage	Barium Springs, N. C.	2
Red Cross	Henderson, N. C.	1
Red Cross	Wallace, N. C.	1
Tuberculosis Association	Concord, N. C.	2
United Daughters of the Confederacy		1
Kiwanis Club	Kinston	1
Board of County Commissioners	Pasquotank County, N. C.	1
Council Tool Company	Wananish, N. C.	1
Elmira Cotton Mills	Burlington, N. C.	1
Roanoke Mills	Roanoke Rapids, N. C.	1
Tuberculosis Association	Burlington, N. C.	1
Tuberculosis Association	Hickory, N. C.	1
Board of County Commissioners	Richmond County	1
Tuberculosis Association	Statesville, N. C.	1
Tuberculosis Association	Shelby, N. C.	1
Golden Belt Manufacturing Company	Durham, N. C.	1
Red Cross and Tuberculosis Association	Mount Airy, N. C	1
Jefferson Standard Life Insurance Company, Tuberculosis Association	Rosemary, N C	1
J. M. Pruett, Treasurer	Church of Oxford, N. C.	1
Clerk of Court	Stanly County	1
Blind School for White	Raleigh, N. C.	1
Tuberculosis Association	Greenville, N. C.	1
Popular Fund	Salisbury, N. C.	1
Public Health Department	Wilmington, N. C.	1
Amazon Cotton Mills	Thomasville, N. C.	1
Federation of Women's Clubs		1
Stanly County		1

FINANCIAL STATEMENT

BALANCE SHEET, JUNE 30, 1922—ASSETS AND LIABILITIES

Assets

Cash in Drawer	$ 2,420.45	
Cash in Page Trust Co. (Aberdeen)	46,768.20	
Cash in Page Trust Co. (Raeford)	11,206.37	$60,395.02
Balance due State appropriations, permanent improvement		167,358.65
Inventories, Schedule 3	$85,656.45	
Fixed Properties, Schedule 2	566,765 68	652,422.13
Total assets		$880,175.80

Liabilities

Overdraft, extension fund	$ 197.50	
Outstanding vouchers, Page Trust Co. (Aberdeen)	26,025.24	
Outstanding vouchers, Page Trust Co. (Raeford)	3,159.61	
	$29,382.35	
Assets in excess of liabilities	850,793.45	$880,175.80

RECEIPTS AND DISBURSEMENTS

Seven Months Ending June 30, 1922

RECEIPTS

State Appropriations

Permanent improvement fund	$85,833.33	
Default of contractor	40,000.00	
Total		$125,833.33

Sanatorium Earnings

Board and treatment	$47,501.38	
X-ray examinations	1,155.50	
Total		48,656.88

Intertrading Accounts

Transportation and drayage	$ 151.10	
Laundry	1,025.99	
Hospital supplies	1,038.17	
Telephone and telegraph	93.79	
Provisions	494.71	
Farms	273 10	
Dairy	124.85	
Miscellaneous	536.68	
Total		3,738.39
Total receipts		$178,228.60

DISBURSEMENTS

PERMANENT IMPROVEMENTS	State Fund	Sanatorium Fund	Total
Equipment and repairs, old buildings	$ 19,031.37		
Negro sanatorium	11,021.30		
Dining hall and kitchen (new)	17,475.91		
Assistant superintendent's residence	8,245 99		
Power house and laundry	4,897 41		
Deep well	2,154.17		
Barns and silos	1,821.10		
Servants' quarters and equipment	5,746.35		
Total			$70,393.60

EXTENSION FUND

Salaries	$ 5,980.00		
Traveling expenses	1,493.96		
Furniture and fixtures	108.57		
Books and stationery	667.98		
Stamps	486.29		
Miscellaneous	13.20		
Total			8,750.00

MAINTENANCE APPROPRIATION

SALARIES:	Medical	$ 4,814.78	$ 18.30	
	Executive	1,598 31	.....	
	Nurses and attendants	3,141.01	33.17	
	Cooks and servants	7,173.35	158.64	
	Total	$ 16,727.45	$ 206.11	16,733.56
SUPPLIES:	Bedding and linen	$ 556.93	$ 1,331.15	
	Crockery and silver	213.47	725.20	
	Drugs and medicine	335.82	1,208.48	
	Miscellaneous	1,927 44	2,309.25	
	Total	$ 3,033.66	$ 5,574.08	8,607.74
PROVISIONS:	Meats	$ 2,605.66	$ 4,184.13	
	Butter	713.94	968.53	
	Eggs	1,316.60	3,559.95	
	Vegetables and fruits	1,031.13	1,178.64	
	Groceries	2,488.59	8,657.94	
	Miscellaneous	.....	14.25	
	Total	$ 8,155 92	$ 18,563.44	26,719.36
EQUIPMENT:	Furniture and fixtures	$ 1,041.74	$ 749.30	
	Instruments	657.93	94.76	
	Miscellaneous	46.47	22.71	
	Total	$ 1,746.14	$ 866.77	2,612 91
	Carried forward			$134,017.17

DISBURSEMENTS—*Continued*

		State Fund	Sanatorium Fund	Total
Amount brought forward				$134,017.17
OFFICE:	Equipment	.....	$ 2.14	
	Books and stationery	$ 19.48	177.90	
	Stamps	22.00	272 10	
	Miscellaneous	223 92	48 04	
	Totals	$ 265 40	$ 500.18	765.58
POWER AND HEAT:	Labor	$ 1,139.25	$ 9.00	
	Supplies	4,856.32	7,060.05	
	Total	$ 5,995.57	$ 7,069.05	13,064.62
LIGHT:	Labor	$ 345.00	$ 4.00	
	Supplies	476.10	186.10	
	Total	$ 821.10	$ 190.10	1,011.20
WATER:	Labor	$ 345.00	$ 50.65	
	Equipment	330.90	66.75	
	Supplies	.....	2 40	
	Total	$ 675.90	$ 119.80	795.70
REFRIGERATION:	Labor	$ 345 00	$ 4.00	
	Supplies	168.38	79.63	
	Total	$ 513.38	$ 83.63	597.01
PLUMBING AND SEWER:	Labor	$ 345 00	$ 4 00	
	Equipment	.....	13 22	
	Supplies	3.98	1.64	
	Total	$ 348.98	$ 18.86	367.84
FARMS:	Repairs to buildings	$ 49.30	$ 190.67	
	Live stock	4.00	32.00	
	Machinery and tools	334.23	568.87	
	Seed and fertilizers	2,622.79	651.99	
	Feed	61.62	449.55	
	Labor	1,129.17	2,820 33	
	Miscellaneous	.....	91 50	
	Total	$ 4,201.11	$ 4,804.91	9,006.02
DAIRY:	Repairs to buildings	$ 3.00	$ 0.60	
	Live stock	167.88	1,192.18	
	Fixtures	94.72	50.70	
	Supplies	457.64	342.04	
	Feed	780.06	2,910.68	
	Labor	911 36	90 90	
	Total	$ 2,414.66	$ 4,587 10	7,001.76
Amount carried forward				$166,626.90

DISBURSEMENTS—*Continued*

	State Fund	*Sanatorium Fund*	*Total*
Amount brought forward			$166,626.90
Miscellaneous:—Training school books	$	$ 11.24	
Telephone and telegraph	94.70	236.98	
Laundry	1,351.47	1,844.59	
Transportation and drayage	983.54	1,008.37	
Refund B. and T.	186 59	943.64	
Freight and express	185.70	1,142.90	
Hog account	161.14	759.22	
X-ray	1,235 18	284.30	
Landscape		16.25	
Laboratory	485.74	99.27	
Total	$4,684.06	$6,346.76	$ 11,030.82
Total disbursements			$ 177,657.72

GENERAL SUMMARY

Balance December 1, 1921:			
Cash in Office		$ 1,583.02	
Cash in Page Trust Co. (Aberdeen)		45,392.69	
Cash in Page Trust Co. (Raeford)		9,176.58	
Total		$ 56,152.29	
Outstanding: Page Trust Co. (Aberdeen)	$21,756.13		
Page Trust Co. (Raeford)	597.26		
Total		22,353.39	
True balance, December 1, 1921		$33,798.90	

RECEIPTS

Appropriations	$125,833.33		
Board and treatment	47,501.38		
Intertrading accounts	4,893.89	178,228.60	
Total to account for			$212,027.50

DISBURSEMENTS

Permanent improvements	$ 70,393.60		
Extension	8,750.00		
Maintenance	49,583.33		
Total appropriation, expenditures		$128,726.93	
Maintenance from earnings		48,930.79	
Total disbursements			177,657.72
Balance on hand			$34,369.78

Cash in office		$ 2,420.45	
Cash in Page Trust Co. (Aberdeen)		46,768.20	
Cash in Page Trust Co. (Raeford)		14,365.98	
Total		$63,554.63	
Less outstanding vouchers:			
Page Trust Co. (Aberdeen)	$26,025.24		
Page Trust Co. (Raeford)	3,159.61	29,184.85	
Balance			$34,369.78

RECONCILIATION OF CASH ACCOUNT

Seven Months Ending June 30, 1922

RECEIPTS

December, 1921	$5,811.55	
January, 1922	6,743.20	
February, 1922	6,900.86	
March, 1922	9,055.60	
April, 1922	7,475.93	
May, 1922	8,606.05	
June, 1922	7,802.08	
Total receipts		$52,395.27
Cash in office, December 1, 1921		1,583.02
Total		$53,978.29

DEPOSITS, PAGE TRUST CO., RAEFORD, N. C.

December, 1921	$5,000 00	
January, 1922	6,504 37	
February, 1922	7,000.00	
March, 1922	6,500.00	
April, 1922	9,900	
May, 1922	7,400.00	
June, 1922	9,253.47	
Total deposits		51,557.84
Balance in drawer, June 30, 1922		$ 2,420 45

FIXED PROPERTIES, JUNE 30, 1922

REAL ESTATE:		
Hospital grounds	$20,000.00	
Farms	34,750.00	
Total		$54,750.00
BUILDINGS:		
Gordon Cottage	$ 7,500.00	
Negro sanatorium	16,574.78	
Nurses' Home	12,000.00	
Superintendent's residence	10,000.00	
Assistant superintendent's residence	10,506.49	
Assembly hall and dining hall	5,000.00	
Dining hall and kitchen (new)	14,183.91	
Well No. 2	7,000.00	
Administration and infirmary	260,550.10	
Power plant and laundry	8,746.85	
Flanagan cottage	15,000.00	
Servants' quarters	12,000.00	
Nurses' annex	3,500.00	
Physician's residence	3,500.00	
Sunshine cottage	3,500.00	
Repairs to old buildings	32,784.08	
Farm residence	1,500.00	
Dairy, barns, silos and bottling plant	28,175.20	
Power, heat, light, water, etc	46,664.77	
Sewer system and disposal plant	11,433.15	
Landscape	1,896.35	
Total		512,015.68
Total fixed properties		$566,765.68

INVENTORIES, JUNE 30, 1922

Farms—Operating account	$ 475.85	
Machinery and equipment	2,468.45	
Live stock	1,050.00	
Dairy—Operating account	2,112.65	
Live stock	15,450.00	
Hog account	3,257.25	
Furniture and fixtures—Hospital	11,240.50	
Dining hall and kitchen	3,451.35	
Superintendent's residence	1,986.74	
Nurses' home	1,050.00	
Linen and bedding	6,786.17	
Crockery and silver	895.73	
Drugs and medicine	2,449.50	
Hospital supplies	7,631.83	
Provisions	2,568.85	
Training school books	198.16	
Power, heat, light, water, etc	2,343.13	
Library	135.00	
Office supplies (business)	237.00	
Office equipment (business)	392.00	
Office supplies (extension)	1,111.05	
Office equipment (extension)	4,095.68	
Laboratory and medical office equipment	11,265.46	
Transportation and drayage	1,504.10	
Telephone system	1,500.00	
Total		$85,656.45

RECONCILIATION OF BANK BALANCES

December 1, 1921, to June 30, 1922

PAGE TRUST CO., RAEFORD, N. C.

Balance in bank as per pass book	$ 9,176 58	
Deposited during period	51,557.84	
Total to account for		$ 60,734.42
Vouchers outstanding, December 1, 1921	$ 597.26	
Vouchers drawn during period	48,930.79	
Total disbursed		49,528.05
Balance, June 30, 1922		$ 11,206.37

BANK RECONCILIATION

Balance as per pass book	$ 14,315.83	
Returned check charged in error, June 13, 1922	50.15	
Total	$ 14,365.98	
Less outstanding vouchers, June 30th	3,159.61	
Balance		$ 11,206.37

OUTSTANDING VOUCHERS

No.	*Amount*	*No.*	*Amount*
2319	$ 7.60	1496	$ 49.66
179	3.53	1497	117.48
692	2.77	1498	26.54
306	7.45	1499	$52.50
1145	5.35	1500	21.88
1454	5.48	1501	.67
1476	3.69	1502	8.80
1485	7.95	1503	4.45
1486	1,443.08	1504	44.79
1487	27.81	1505	55.30
1488	18.18	1506	18.95
1489	226.53	1507	3.48
1490	56.75	1508	33.87
1491	6.99	1509	62.11
1492	37.50	1510	4.42
1493	5.15		
1494	785.53	Total	$3,159.61
1495	3.37		

RECONCILIATION OF BANK BALANCES—*Continued*

PAGE TRUST CO., ABERDEEN, N. C.

Balance in bank, December 31, 1921	$45,392.69	
Deposited by State Treasurer	125,833.33	
Total to account for		$171,226.02
Outstanding vouchers, December 1, 1921	$21,756.13	
Vouchers drawn during period	128,726.93	
Total disbursed		150,483.06
Balance, June 30, 1922		$20,742.96

BANK RECONCILIATION

Balance, June 30, 1922	$46,768.20	
Less outstanding vouchers	26,025.24	
Balance		$20,742.96

TRIAL BALANCE JUNE 30, 1922

		Cr.
Surplus		$712,619 65
Real Estate:—Hospital grounds	$20,000.00	
Gordon cottage	7,500.00	
Negro sanatorium	16,574.78	
Nurses' home	12,000.00	
Superintendent's residence	10,000.00	
Assistant superintendent's residence	10,506.49	
Assembly, dining hall and kitchen	5,000.00	
Dining hall and kitchen (new)	14,183.91	
Well No. 2	7,000.00	
Administration and infirmary building	260,550 10	
Power plant and laundry (new)	8,746.85	
Flanagan cottage	15,000 00	
Servants' quarters	12,000 00	
Nurses' annex	3,500.00	
Physician's residence	3,500.00	
Sunshine cottage	3,500.00	
Repairs to old buildings	32,784.08	
Farm, operating account	475.85	
Farm, real estate	34,750 00	
Farm, machinery and equipment	2,468 45	
Farm, live stock	1,050.00	
Farm, residence	1,500.00	
Dairy, operating account	2,112.65	
Barn, silos and bottling plant	28,175 20	
Dairy, live stock	15,450.00	
Hog account	3,257.25	
Furniture and fixtures—Hospital	11,240.50	
Dining hall and kitchen	3,451 35	
Superintendent's residence	1,986.74	
Nurses' home	1,050.00	
Linen and bedding	6,786 17	
Crockery and silverware	895 73	
Drugs and medicine	2,449.50	
Hospital supplies	7,631.83	
Provisions	2,568.85	
Training school books	198.16	
Power, heat, light, water, etc. (old)	49,007 90	
Telephone system	1,500.00	
Library	135.00	
Office—Supplies (business)	237.00	
Equipment (business)	392 00	
Supplies (extension)	1,111.05	
Equipment (extension)	4,095.68	
Laboratory and medical office equipment	11,265.46	
Sewer system and disposal plant	11,433.15	
Transportation and drayage	1,504 10	
Landscape	1,896 35	
Appropriations		167,358 65
Permanent improvements	167,358.65	
Extension		197.50
Page Trust Co., Raeford	11,206.37	
Page Trust Co., Aberdeen	46,768.20	
Cash	2,420.45	
Totals	$880,175.80	$880,175.80

TENTH ANNUAL REPORT

OF THE

North Carolina Sanatorium for the Treatment of Tuberculosis

SANATORIUM, N. C.

FOR THE PERIOD

FROM JULY 1, 1922, TO JUNE 30, 1923

RALEIGH
EDWARDS & BROUGHTON PRINTING COMPANY
1924

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NORTH CAROLINA SANATORIUM

FOR THE TREATMENT OF TUBERCULOSIS

PERSONNEL

BOARD OF DIRECTORS

Dr. T. W. M. Long, *Chairman*	Roanoke Rapids
Mr. U. L. Spence, *Vice-Chairman*	Carthage
Mr. W. E. Harrison, *Secretary*	Rockingham
Dr. William P. Holt	Duke
Dr. J. C. Braswell	Whitakers
Mr. J. C. Thomas	Raeford
Mr. J. R. Jones	Sanford
Mr. James Oettinger	Wilson
Mr. R. K. Blair	Charlotte

Superintendent	L. B. McBrayer, M.D., F.A.C.P.
Assistant Superintendent and Chief of Medical Service	P. P. McCain, A.B., M.D.
First Assistant Physician	S. M. Bittinger, M.D.
Clinician and Director of Laboratories	R. McBrayer, A.B., M.D.
Assistant Physician	J. H. Williams, A.B., M.D.
Chief Clerk	Herbert O. Sink
Private Secretary to the Superintendent	Mrs. H. O. Sink
Technician	Miss Lois Huneycutt
Assistant Technician	Miss Maude Mann
Superintendent of Nurses	Miss E. Connolly
Assistant Superintendent of Nurses	Miss Kate Satterwhite
Cashier	F. L. Eubanks
Steward	F. D. Cliff
Farm Manager	L. B. McBrayer, Jr.

EXTENSION DEPARTMENT OF THE NORTH CAROLINA SANATORIUM FOR THE TREATMENT OF TUBERCULOSIS

Director	L. B. McBrayer, M.D., F.A.C.P.
Assistant	P. P. McCain, A.B., M.D.
Chief Clerk	Herbert O. Sink
Stenographer, Head	Mrs. H. O. Sink
Stenographer	Mrs. C. W. Covington
Stenographer	Mrs. J. H. Williams
Stenographer	Miss Sibyl Brabble
Stenographer and X-ray Technician	Mrs. J. L. Spruill
Director Organization and Education Among the Negroes	Florence C. Williams

CONSULTING STAFF

Surgery	DR. GEO. W. PRESSLY	Charlotte
	DR. J. F. HIGHSMITH	Fayetteville
Eye, ear, nose, and throat	DR. JAS. M. LILLY	Fayetteville
	DR. WM. S. JORDAN	Fayetteville
Genito-urinary	DR. A. J. CROWELL	Charlotte
	DR. J. D. HIGHSMITH	Fayetteville
Pathology	DR. JAS. B. BULLITT	Chapel Hill
Pharmacology	DR. WM. DEB. MACNIDER	Chapel Hill

PERSONNEL

NORTH CAROLINA TUBERCULOSIS ASSOCIATION

MRS. GORDON FINGER, *President*	Charlotte
MRS. CHAS. R. WHITAKER, *Vice-President*	Southern Pines
DR. L. B. MCBRAYER, *Managing Director and Secretary-Treasurer*	Sanatorium
DR. J. L. SPRUILL, *Clinic Physician*	Sanatorium
HERBERT O. SINK, *Clerk*	Sanatorium

DIRECTORS

DR. OTHO ROSS	Charlotte
MRS. CUTHBERT MARTIN	Wilmington
MRS. W. N. HUTT	Southern Pines
MRS. T. D. JONES	Durham
DR. C. L. MINOR	Asheville
MR. R. B. WILSON	Raleigh
DR. R. L. CARLTON	Winston-Salem
DR. J. DONNOLLY	Charlotte
MRS. C. C. HOOK	Charlotte
DR. W. L. DUNN	Asheville
COL. J. L. LUDLOW	Winston-Salem
MRS. S. H. BROWN	Oxford
MRS. J. M. GUDGER, JR.	Asheville
MRS. HOWARD RONDTHALER	Winston-Salem
MRS. C. J. TINSLEY	Greensboro
MRS. MAX T. PAYNE	Greensboro
MRS. M. E. ROBINSON	Goldsboro

LETTER OF TRANSMITTAL

To His Excellency,
GOVERNOR CAMERON MORRISON,
Raleigh, N. C.

SIR:—I have the honor to transmit herewith the report of the Superintendent of the operations of the North Carolina State Sanatorium for the Treatment of Tuberculosis for the fiscal year ending June 30, 1923. The report of the Superintendent is accepted as the report of the Board of Directors.

The board requested the State Auditor to install a unit of cost system for the Sanatorium, but the same was not done. However, the same will be carried out in our future operations.

Respectfully submitted,
T. W. M. LONG, M.D.,
Chairman, Board of Directors.

TENTH ANNUAL REPORT

OF

THE NORTH CAROLINA SANATORIUM FOR THE TREATMENT OF TUBERCULOSIS

Dr. T. W. M. Long, *Chairman,*
Board of Directors of the North Carolina Sanatorium,
Roanoke Rapids, N. C.

My Dear Doctor:—I beg to hand you herewith annual report of the North Carolina Sanatorium for the Treatment of Tuberculosis, for the year ending June 30, 1923.

The outstanding loss during the year was the burning of the kitchen, dining-room, storerooms, etc., on the morning of January 12, 1923, at 3 a. m. The beautiful conduct of the patients and the splendid fire fighting of the employees to prevent the burning of the infirmary were remarkable indeed. The fire companies from Aberdeen and Southern Pines came out to help us, which was greatly appreciated. The fire, however, was practically under control when they reached here. Fortunately, our water did not give out until the fire was well under control, though there are many times when we do not have sufficient water to begin fighting a fire. Too much praise cannot be given Mr. F. D. Cliff, the steward, for the serving of meals without let-up. When you consider the fact that the fire was not under control until 4:30, and that all cooking utensils, all the supplies for breakfast, and all the dining-room and kitchen equipment were destroyed, and yet breakfast was served only twenty minutes late, you are led to say, "Remarkable, indeed!" Our thanks are also due to Mayor S. B. Richardson and Mr. Buchan of Southern Pines for their kindly assistance, and to General Bowley, Commandant, Fort Bragg, for lending us two field kitchens and equipment. Elsewhere in the report will be found a statement of the loss, as nearly as could be estimated.

As noted in the body of the report, we are indebted to many friends for donations and kindnesses which have added much to the pleasure of the patients.

Dr. R. McBrayer, clinician and director of laboratories, left us on August 1st to take up the practice of internal medicine in Shelby, North Carolina. Too much cannot be said of his work, both clinical and laboratory, which latter he built up to where it was second to none anywhere.

During the late summer we moved into our service building, containing auditorium, dining-rooms, kitchen, storerooms, cold storage, bakery, etc. This has long been needed, and is entirely adequate for our needs.

The Negro Division of the Sanatorium was opened October 10th. It is on the same general plan as the infirmary building for whites, and has a capacity for sixty-four patients. In addition, it has ample room for administration to increase from four to six times the present patient capacity.

It might not be out of place at this time to contrast the Sanatorium and the tuberculosis work throughout the State with the conditions as they were when we took up the work here April 2, 1914. This, of course, is not intended as a criticism or reflection upon anybody who had been engaged in tuberculosis work prior to that time, because they had been laying the foundation for the work that has been done since. The foundation is always the first step in construction.

In 1914 the buildings were of the very cheapest and crudest kind. The shower bath was on the porch and not heated in any way. The only method of heating the buildings was by fireplaces. There were no lights except lamps and lanterns. The Superintendent, medical staff, and nurses ate in an improvised dining-room that was a closed-in porch, without any heat, for two winters. It was necessary to house the other members of the medical staff in the home of the Superintendent, which was heated by only one fireplace. There were no proper medical offices nor were there any laboratory facilities. There was a small dairy barn, which was a part of the horse barn, and which housed about twelve or fifteen cows; they gave ample milk, however, for the thirty patients who were here at the time. On account of the many changes in personnel, the medical and other records were so poorly made, and kept by so many different systems or lack of any system, that it was impossible to get records of any kind of any considerable number of patients that had been treated here, and therefore it became necessary for us to begin numbering the patients over again, so that our records start with number one.

When it was learned that fresh air was a good thing for the treatment of tuberculosis, we went to the extreme, as we often do in many things, and thought that the more fresh air we could give the patient the better it would be; and therefore sanatoria were built of the cheapest possible construction and did not confine the admission of air to the doors and widows. This was one reason for the type of building erected in the beginning, and the other was that funds were not sufficient to erect any other kind. The first building erected after 1914 was the left wing of the present main building, which on account of lack of funds at the time of building is a brick-wood and slate-roof construction. So far as we know, it was the first building ever constructed for the treatment of tuberculosis that had in mind the comforts and convenience of the patients and the nursing as well. This building was built with a main corridor and, opening off the corridor, on either side, rooms with bath between each two rooms; a diet kitchen and nurses' office on

each ward; a common sleeping porch extending along the sides and end of the building with doors sufficiently wide to allow the rolling of beds into or out of the rooms; and all the rooms, corridor, bath, etc., being steam heated.

Since that time the main building has been completed, giving another infirmary wing, which is fireproof with tile floors, etc., the central portion being administration and furnishing ample offices for the present, from the laboratories of all kinds on the basement floor to the operating, metabolism, and light treatment rooms on the fourth floor.

A small steam and electric light plant was installed at the time of the completion of the left wing. A modern power house, power plant and laundry have just been completed, which will take care of the needs of the institution for some time to come.

The medical work has been improved until it is the equal of any sanatorium anywhere and superior to most.

We may perhaps be pardoned for making record here that the main building, particularly the infirmary wings, has been copied in toto by some states, has been copied with slight changes by many others, and its general plan is used by the United States Government in its Veterans' Bureau, with the exception that the baths are all massed in one room. Perhaps we may also be pardoned for saying that the plans for this building were worked out wholly by the Superintendent and Assistant Superintendent of the institution, as testified to on one occasion by Mr. C. C. Hook, the able architect who worked out the details and prepared the plans for us.

We have treated up to the date of this writing, December 31, 1923, 3,254 patients. The results have been the equal of the best sanatoria in the United States. Since we have had the equipment and personnel to make it possible, we have followed the plan in our medical department of ascertaining all the diseases or conditions that may interfere with the patient's getting well of tuberculosis, relieving the complications where possible, as well as treating the tuberculosis itself. This should be the ideal toward which every sanatorium should strive, because many times a patient fails to get well of tuberculosis for the reason that some other disease or condition prevents it.

Our diagnostic clinic held here every morning in the year except Sunday has been very popular and has been of great help to the physicians and the people of the State. We have examined about 7,000 patients in this clinic.

The extension work of the Sanatorium has carried instructions on the care and prevention of tuberculosis into many, many thousands of homes in the State. The patients who have been treated here have gone away to practice and preach the gospel of prevention and cure of tuberculosis. As an example of the changed attitude of the people, it

was doubtful in 1914 if a sleeping porch could have been found in the State, outside of health resort towns, while at this time the dwelling that is built without a sleeping porch is the exception rather than the rule.

When we came to the Sanatorium there were thirty patients, as mentioned previously, and three graduate nurses, the latter drawing salaries of $5 per day each, and expenses. As soon as possible the training school for nurses was organized and was later duly incorporated by the State of North Carolina through its General Assembly. This training school for nurses is an important part of the Sanatorium organization; it has been a success from the beginning. The teaching is done by the head nurse and her assistant, the medical staff, and the laboratory staff. So there is no extra expense connected with the teaching except that the teachers work overtime, the classes usually being held at night. The course given is the equal, so far as it attempts to go, of the best hospitals in the State, and admits our graduates to the third year of these hospitals, and our graduates always find themselves fully prepared to take up the third-year work. In addition to carrying on the nursing of the Sanatorium, these girls, practically all of them having had tuberculosis, are given an opportunity to become professional women when they are not physically able to take up the more strenuous work in a general hospital or in other fields. Too much praise cannot be given to our superintendent of nurses, Miss Elizabeth Connolly, for her ability and her patient and untiring efforts with the pupil nurses, as well as the splendid care that she gives to the patients through her nursing staff.

We have also from time to time given post-graduate training in tuberculosis nursing to nurses in this and other states who desired to perfect themselves in this work.

We have allowed physicians to come here and spend from one to two or more weeks studying tuberculosis. This is and should be an important work of the Sanatorium. The medical schools do not even yet teach a physician how to make a diagnosis of an early case of tuberculosis, and it is not only the privilege but the duty of the Sanatorium to teach any and all physicians who desire to come here for that purpose. This, of course, takes some time upon the part of the medical staff, but it is time well spent.

It is always necessary to add to our staff medical men who do not know tuberculosis, and teach them. When they have learned well the work, they can command much more money somewhere else, and the process has to be repeated. We are unable to obtain competent men, men who are able to join with us in the kind of work that is being done here, unless there is some other reason besides the salary offered to bring them here. Usually it is a man who has tuberculosis and cannot do the hard work required in general practice or even in a general hospital. Then we must needs take him on and treat him until he is able to work, probably for only part time, and perhaps always give him rest hours in the middle of the day. The only other man who

comes is the man who is sufficiently interested in the line of work or some particular line of work we are doing to be willing to come and work with us until he has perfected himself in the particular thing desired. The board should look very carefully into the matter of salaries paid assistant physicians here, and satisfy themselves as to whether or not the salaries should be increased.

The North Carolina Tuberculosis Association has been a great ally in the extension work of the Sanatorium. The National Tuberculosis Association was endeavoring to extend its organization and its influence to all the states, and in so doing was organizing state associations or local committees, and was featuring as a matter of education and finance the Tuberculosis Christmas Seal, which was at that time called the Red Cross Christmas Seal. In the spring of 1915 the directors of this association in North Carolina, without the knowledge or consent of your Superintendent, elected him managing director, and he has continued to conduct the work of this association in connection with the Sanatorium and its extension work since that date. From an association little known and without any funds at the time it was taken over, it has developed into a real institution and has done most valuable work along many lines. The total sale of Tuberculosis Christmas Seals annually for the last two years has run over $40,000 and gives promise at this time of being larger than any previous year. Seventy-five per cent of these funds is kept by the local city or county organization, where such exist, and used locally. The work of this local committee has been of untold benefit in the fight against tuberculosis throughout the State, and at least in one instance has been the nucleus on which was built a splendid county sanatorium.

The State Association, in its State-wide work, has coöperated in every way with all other agencies and has set in motion and perfected a number of fine pieces of work. It has coöperated with the extension department of the Sanatorium in work among the negroes, which has been a model and an inspiration to many other southern states. The State director of this work, Florence C. Williams, has been loaned to West Virginia to establish a similar piece of work there.

The State Association brought the first public health nurse to North Carolina, who later became State director of public health nursing in the State. Later still the association went into coöperation with the American Red Cross, and our State director of public health nursing became State director for the American Red Cross, also in a coöperative nursing service, and later still the State director of public health nursing was turned over to the State Board of Health to become director of the Bureau of Public Health Nursing of the State Board of Health.

The association has featured the Modern Health Crusade and Nutrition Crusade throughout the State.

Before the United States Government was prepared to treat the tuberculous ex-service man, the State Tuberculosis Association paid the amount required at the Sanatorium and made it possible for the Sanatorium to begin the treatment of these ex-service men while there was

yet nowhere in the world for them to go. This money was refunded to the State Association when the Government paid the Sanatorium for the treatment. The association also furnished the Sanatorium with an X-ray laboratory complete when the Sanatorium had no funds with which to purchase it. The milk bottling and sterilizing plants at the dairy were also furnished under the same circumstances.

In many other ways this association has either led the way or been an important ally in the campaign against tuberculosis in North Carolina.

The Sanatorium, if for no other reason than its own interests, should continue the very closest relations possible with this association.

Through its medical staff the Sanatorium has done a considerable amount of research work, both at the Sanatorium and in the field, and papers have been prepared and read before state and national organizations, as well as printed in state and national medical journals. There are some twenty or more papers in process at this time—that is, the work and observation on which these papers are based has been taken, or is ready to be taken, from the daily records of our work here, and there is sufficient material now in the records to complete several of these papers. The last paper published was in the *Southern Medical Journal* for December, 1923, and this paper was published at the request of one of the world's leading men in this particular field, as it contained observations that were of very great importance in the rounding out of methods of procedure, and particularly the deduction of diagnoses therefrom.

The Sanatorium, in connection with its extension work and the State Tuberculosis Association, has furnished the material for the December *Health Bulletin* of the State Board of Health for the last several years, the same being wholly devoted to tuberculosis. In the December (1923) issue there appeared an article by your Superintendent making some observations on the incidence of infection with the tubercle bacillus, deducted from various pieces of work having been done by the extension department of the Sanatorium and correlated with work done by the United States Public Health Service and others in different states in the United States.

We are indebted to the medical faculty of the University, particularly Dr. James B. Bullitt, professor of pathology, and to a lesser degree Dr. Wm. deB. MacNider, professor of pharmacology, for cooperation in some of our laboratory research work. The following statement is a strong one, but I believe it will be concurred in by the leading medical men throughout the country: *The best medical work will not and cannot be done in any hospital or sanatorium unless research work, both clinical and laboratory, is conducted.* There is a considerable amount of research work in tuberculosis that cannot be conducted anywhere else except in a sanatorium. It follows, then, that unless it is done there, it will not be done. Therefore, your Superintendent most strongly urges that you give consideration to this phase of the

work, and recommends with all the forcefulness possible for him to command that this work at the Sanatorium and in the field be continued and encouraged.

Taking it by and large, it would seem that the tuberculosis campaign in North Carolina has been fairly successful, and therefore proving beyond a doubt that it is working along proper lines. In 1913 there was no State-wide vital statistics law, but a goodly number of cities had accurate vital statistics, and from these it was estimated that there were 4,800 deaths in the State from tuberculosis in 1913. This was no doubt correct, for in 1915, when the State-wide vital statistics law was still young and departments evidently not efficient, there were reported to the Bureau of Vital Statistics of the State Board of Health 3,710 deaths from tuberculosis. In 1922 there were 2,369 deaths from tuberculosis—a reduction of more than one-half in the period of nine years. It is apparent that if this ratio of reduction could be kept up for the next ten years we would be free of deaths from tuberculosis in North Carolina. But even if we do it in thirty years, as was suggested by Dr. Linsly R. Williams, managing director of the National Tuberculosis Association, at Durham during the meeting of the North Carolina Conference on Tuberculosis last October, it would still be the greatest accomplishment in the history of the world.

To call forcefully to your attention the importance of the tuberculosis work in the State let me say that tuberculosis is costing the State of North Carolina in sickness and death more than all other preventable diseases put together. Dr. F. M. Register, director of the Bureau of Vital Statistics of the State Board of Health, in an article read before the meeting of the North Carolina Conference on Tuberculosis at Durham, stated: "In 1922 there were more deaths from tuberculosis than from typhoid fever, malaria, measles, smallpox, scarlet fever, whooping cough, poliomyelitis, meningitis, pellagra, burns, railroad accidents, automobile accidents, and homicides combined." But that is not all of it, for one of the tragedies in tuberculosis is that a person cannot die quickly. Statisticians show that on an average he lives three years after he becomes ill with the disease; while diphtheria, if it kills, does so in two or three days, and if the patient gets well, he does so in a week. There is no family so poor but that with the help of the neighbors they can stand an illness of a member of the family for a week, and the expense is small even if death should occur, and the loss is very much smaller, because diphtheria kills young children, while tuberculosis takes its largest toll from those who have finished their education and are ready to enter or have already entered the gainful pursuits of life. It is nothing uncommon for a case of tuberculosis to pauperize a whole family that was otherwise self-supporting. The husband becomes ill with tuberculosis; the wife must stay in the home to nurse him and perhaps an older girl or boy, if there is one, to help, and the total earning capacity of the family is stopped. If this father could be carried to a sanatorium and kept there, the remainder of the family could continue to be self-supporting. But this is only an example. There are many other ways in which the tragedy is equally as

great. One of the frequent ways heretofore is that the father stays in the home and communicates the disease to all the other members of the household. It is expensive to treat tuberculosis. Yes, but it is far more expensive not to treat it.

The additional sickness and disease and death that would have taken place in North Carolina in 1922 if no tuberculosis work had ever been done is estimated to be valued at fifty million dollars, and this is perhaps a low estimate. By the same token we continue to lose fifty million dollars a year in North Carolina in sickness and death from tuberculosis. The people of North Carolina can well afford, then, to spend larger sums of money on the treatment and control of tuberculosis in our State. In fact, they cannot afford to do otherwise.

The one thing that is needed to have complete functioning of the State Sanatorium is a children's building, and that should, in my opinion, be the next building for patients erected here. Then the only thing for enlargement would be additions to the existing units. As we have studied tuberculosis more and more and worked in it more and more, we have found that the campaign against tuberculosis must be taken up with the children. This has been done to some extent through the Modern Health Crusade, through the nutrition clinics, and in other ways; but a building at the State Sanatorium for children is badly needed in order that the Sanatorium can perform its part—which really cannot be performed in any other way—in the work among children in this State. The records will show that the Board of Directors asked the last General Assembly for $100,000 for this purpose, which for some reason was not granted.

I desire here to express my personal and official appreciation of the splendid work of the medical, nursing, and office staffs, the heads of all departments, and every employee of every kind.

Please let me also express my sincerest appreciation for the hearty coöperation upon the part of each member of the Board.

Very respectfully yours,

L. B. McBRAYER, M.D., F.A.C.P.,

Superintendent.

SUMMARY OF YEAR'S WORK

JULY 1, 1922—JUNE 30, 1923

EXTENSION DEPARTMENT

Letters and postals received		37,671
Letters written:		
Individual	15,818	
Multigraph	42,864	
		58,682
Articles written (approximate number words):		
Newspaper	5,200	
Bulletin	8,180	
Official pamphlet	8,650	
Other publications	22,750	
		44,780
Articles copied (approximate number words)		388,135
Forms and placards prepared		163
Total number copies of forms and placards		60,500
Blank cards mailed for reporting cases of tuberculosis		3,220
Number of cases reported:		
White	929	
Colored	922	
		1,851
Literature sent to reported cases		2,701
Other literature sent out		10,585
Crusaders enrolled		44,285
Sample crusade literature		1,939
Nutrition crusaders enrolled		8,879
Sputum cups distributed		120,410
Tuberculin sent physicians for von Pirquet test		194
Blanks for reporting results of von Pirquet test		194
Patients' histories written		447
Approximate number of words in patients' histories		670,500
Special X-ray histories written (Gastro-intestinal studies)		23
Approximate number of words in X-ray histories		6,750
Envelopes addressed		113,726
Enclosures sent out		46,539
Outside patients examined		823

REPORT OF L. B. MCBRAYER, M.D., F.A.C.P.

Days out of office	60
Addresses delivered	29
Number in audiences	3,055
Consultations and conferences	1,342

REPORT OF P. P. MCCAIN, A.B., M.D.

Days out of office	39
Papers read	5
Number in audiences	585

REPORT OF R. MCBRAYER, A.B., M.D

Days out of office	19
Papers read	5
Number in audiences	400
Conferences	30

TUBERCULOSIS CLINICS

(North Carolina Tuberculosis Association)

J. L. SPRUILL, M.D., *Clinician*

July 1, 1922—June 30, 1923

Number of days in clinics		193
Number of addresses given		73
Total audiences		14,500
Number of positive cases	685	
Number of negative cases	1,158	
Number of suspicious cases	225	
Total number of examinations		2,068

SPECIAL EXAMINATIONS OF CHILDREN

Number examined by inspection (adenoids and tonsils)	102

SUMMARY OF WORK AMONG THE NEGROES

Number reached by Mrs. Williams and colored supervisors in health lectures	155,886
Number reached by Dr. E. T. Ransom by lectures and health educational moving pictures	4,920

MEDICAL REPORT

1923

STATISTICAL

Number of patients to be reported on	359
Number not classified	13
Number not tuberculous	64
Number of patients in Sanatorium July 1, 1923	153
Total number of patients treated during the twelve months	589

46 PATIENTS WHO STAYED LESS THAN 30 DAYS

Condition on Admission		Condition on Discharge					
		Arrested	Apparently Arrested	Quiescent	Improved	Unimproved	Died
Incipient	7	0	0	0	7	0	0
Moderately advanced	12	0	0	0	11	1	0
Far advanced	27	0	0	0	10	14	3
Acute tuberculosis	0	0	0	0	0	0	0
Total	46						

Total number days, 842. Average stay, 18.3. Longest stay, 29. Shortest stay, 7.

Number gained weight, 29.		Number lost weight, 13.	
Average gain	3.8 lbs.	Average loss	1.9 lbs
Largest gain	10.0 lbs.	Largest loss	5.0 lbs
Smallest gain	.5 lbs.	Smallest loss	.5 lbs
Stationary	4	Not weighed	0

81 PATIENTS WHO STAYED 30 TO 89 DAYS

Condition on Admission		Condition on Discharge					
		Arrested	Apparently Arrested	Quiescent	Improved	Unimproved	Died
Incipient	22	0	0	9	13	0	0
Moderately advanced	22	0	0	6	15	2	0
Far advanced	37	0	0	2	15	15	4
Acute tuberculosis	0	0	0	0	0	0	0
Total	81						

Total number days, 4,938. Average stay, 60.9. Longest stay, 89. Shortest stay, 30.

Number gained weight, 70.		Number lost weight, 11.	
Average gain	9.4 lbs.	Average loss	4.6 lbs.
Largest gain	30.0 lbs.	Largest loss	10.05 lbs.
Smallest gain	.5 lbs.	Smallest loss	.25 lbs.
Stationary	4	Not weighed	

232 PATIENTS WHO STAYED 90 DAYS OR MORE

Condition on Admission	Condition on Discharge					
	Arrested	Apparently Arrested	Quiescent	Improved	Unimproved	Died
Incipient 73	3	38	32	0	0	0
Moderately advanced 82	0	6	46	22	8	0
Far advanced 77	0	0	23	32	17	5
Acute tuberculosis 0	0	0	0	0	0	0
Total 232						

Total number days, 42,724. Average stay, 184.1. Longest stay, 790. Shortest stay, 90.

Number gained weight, 212.		Number lost weight, 18.	
Average gain	16.0 lbs.	Average loss	6.54 lbs.
Largest gain	69.5 lbs.	Largest loss	12.00 lbs.
Smallest gain	.5 lbs.	Smallest loss	.25 lbs.
Stationary	2	Not weighed	0

HISTORY OF HEMORRHAGE

Negative		206
Positive	Previous only	132
	Previous and during residence	5
	During residence only	16

RESULTS OF SPUTUM EXAMINATIONS

Negative or no sputum		177
Positive	On admission	116
	During residence	142
	On discharge	100

SEX, AGE, AND CIVIL CONDITION

Sex	Age						Civil Condition			
	8–19	20–29	30–39	40–49	50–59	60–70	Single	Married	Widowed	Divorced
Male 146	42	133	100	64	15	5	133	201	21	4
Female 213										
Total 359										

NATIONALITY: Americans, 358; Syrian, 1.

COMPLICATIONS

Adenitis	9
Adenoids	1
Alveolar abscess	8
Amebic dysentery	1
Amenorrhea	1
Anal fissure	11
Anal fistula	11
Ankylosis	2
Antiflexed uterus	1
Antrum infection	2
Aortic regurgitation	1
Appendicitis	7
Arteriosclerosis	3
Arthritis (septic)	2
Asthma (bronchial)	1
Atrophic rhinitis	2
Blepharitis	8
Bronchiectasis	1
Bronchitis	20
Broncho-pneumonia (tuberculous)	4
Cataract	1
Cervicitis	1
Cholecystitis	4
Conjunctivitis	1
Cystic adenoma	1
Cystitis	2
Cystocele	5
Diabetes	2
Dislocation of hip (left)	1
Duodenal ulcer	1
Ecthyma	1
Eczema	4
Endocarditis	1
Endocervicitis	2
Enteritis (tuberculous)	10
Epidymitis	2
Erosion of cervix	2
Fibroma of breast	1
Frontal sinusitis	7
Gall bladder disease	4
Gastric ulcer	1
Gonorrhea	1
Hay fever	1
Hemorrhoids	10
Hernia (inguinal)	3
Hookworm	20
Hyperthyroidism	9
Hypothyroidism	1
Hysteria	1
Ischio-rectal abscess	2
Kyphosis	1
Laceration of cervix	19
Laceration of perineum	10
Laryngitis (tuberculous)	45
Lipoma	1
Lues	5
Malaria	1
Migraine	1
Mitral insufficiency	14
Mitral stenosis	1
Myocarditis	1
Myofibroma of uterus	1
Nasal polypi	1
Nephritis	22
Neuritis	1
Orchitis	1
Otitis media	9
Pellagra	1
Perforated nasal septum	4
Peritonitis	3
Pes planus	1
Phimosis	1
Pituitary disease	2
Pleurisy with effusion	10
Potts' disease	1
Pregnancy	2
Prolapsed kidney	1
Psoas abscess	1
Psoriasis	1
Pyelitis	2
Pyorrhea	37
Rectocele	5
Retroflexion of uterus	8
Scoliosis	2
Sebaceous cysts (scalp)	1
Spontaneous pneumo thorax	1
Strabismus	1
Subinvolution of uterus	2
Tenia cruris	1
Tonsillitis	24
Varicocele	11
Visceroptosis	4

OCCUPATIONS

Banker	1
Barbers	4
Blacksmith	1
Bookkeepers	8
Butchers	2
Café owner	1
Carpenters	5
Children	2
Clerks	8
Employees in cotton mill	22
Employees in hosiery mill	2
Employees in tobacco factory	8
Engineers	2
Farmers	40
Glass workers	1
Housework	133
Insurance agent	1
Laundress	1
Lumber business	1
Mail carrier	1
Mechanics	2
Merchants	12

Mill foreman	1
Mill workers	4
Miner	1
Ministers	3
Nurses	4
Office worker	1
Painter	1
Physician	1
Plasterer	1
Policeman	1
Printer	1
Railway car repairer	1
Railway conductor	2
Railway brakeman	1
Railway flagman	1
Rubber workers	3
Sawmill worker	1
Seamstress	1
Sheet metal worker	1
Steam fitter	1
Stenographers	7
Street car conductor	1
Students	36
Teachers	12
Telegraph operator	1
Telephone business	1
Telephone operators	6
Train dispatcher	1
Traveling salesmen	5

COUNTIES FROM WHICH 359 PATIENTS CAME

Alamance	6
Anson	1
Beaufort	3
Bertie	6
Bladen	3
Brunswick	1
Buncombe	2
Burke	1
Cabarrus	20
Caldwell	1
Camden	1
Carteret	4
Catawba	3
Chatham	1
Clay	1
Cleveland	1
Columbus	6
Craven	4
Cumberland	4
Davidson	12
Davie	1
Duplin	2
Durham	18
Edgecombe	5
Forsyth	14
Franklin	1
Gaston	4
Gates	1
Graham	1
Granville	7
Guilford	17
Halifax	12
Harnett	7
Haywood	1
Henderson	3
Hertford	2
Hoke	1
Iredell	15
Johnston	5
Lee	6
Lenoir	1
Lincoln	3
Madison	1
Martin	3
McDowell	4
Mecklenburg	6
Moore	5
Nash	5
New Hanover	5
Northampton	1
Onslow	2
Orange	4
Pamlico	1
Pasquotank	1
Person	1
Pitt	3
Randolph	3
Richmond	2
Robeson	7
Rockingham	6
Rowan	10
Rutherford	1
Sampson	3
Scotland	2
Stanly	10
Stokes	2
Surry	10
Transylvania	2
Tyrrell	1
Union	3
Wake	21
Warren	1
Wayne	9
Wilkes	4
Wilson	12

TOWNS FROM WHICH 359 PATIENTS CAME

Ahoskie	2
Albemarle	3
Altamahaw	1
Apex	2
Asheboro	1
Asheville	1
Atlantic	1
Aurora	1
Badin	
Barium Springs	

Beaufort	2
Belcross	1
Belhaven	1
Benson	1
Bethel	1
Black Creek	1
Black Mountain	1
Boiling Springs	1
Brevard	2
Brock	1
Buies Creek	1
Burlington	1
Carthage	1
Castle Hayne	1
Catawba	1
Cerro Gordo	1
Chadbourn	1
Chapel Hill	3
China Grove	2
Charlotte	4
Clarkton	1
Clayton	1
Clemmons	1
Clinton	2
Colerain	2
Columbia	1
Concord	16
Corapeake	1
Councils	1
Cramerton	1
Davidson	1
Denton	1
Duke	3
Dunn	1
Durham	15
Eagle Springs	1
East Durham	2
Elizabeth City	1
Elizabethtown	1
Elkin	1
Elmwood	1
Elrod	1
Enfield	1
Erlanger	2
Fayetteville	2
Forest City	1
Garden City	1
Gastonia	2
Gibsonville	2
Glenwood	1
Goldsboro	6
Greensboro	7
Hallsboro	2
Hamlet	1
Haw River	1
Hayesville	1
Hemp	1
Henderson	3
Hickory	2
High Point	6
Hillsboro	1
Hobgood	1
Holly Springs	1
Hope Mills	1
Huntersville	1
Jacksonville	2
Jonesboro	1
Kannapolis	2
Kinston	1
Kipling	1
Landis	1
Lasker	1
Laurinburg	1
Lenoir	1
Lexington	4
Lillington	2
Lincolnton	3
Linwood	1
Littleton	2
Louisburg	1
McAdenville	1
Madison	2
Marion	1
Maxton	2
Mayodan	1
Mebane	2
Middlesex	1
Mocksville	1
Monroe	2
Mooresville	2
Morehead City	1
Morganton	1
Mount Airy	6
Mount Olive	2
Mount Pleasant	2
Nashville	3
Nazareth	1
Nealsville	1
New Bern	4
New London	3
Newton Grove	1
Norlina	1
North Side	1
North Wilkesboro	1
Norwood	1
Oakboro	1
Olin	1
Oriental	1
Oxford	5
Pinehurst	1
Pinnacle	2
Pitts	1
Proctorville	1
Proximity	1
Raeford	1
Raleigh	15
Red Springs	1
Richfield	1
Roanoke Rapids	3
Rockingham	1
Rocky Mount	3
Ronda	2
Rose Hill	1
Rosemary	2
Round Peak	1
Roxboro	1

Roxobel	1	Tobaccoville	1
Saint Paul	2	Traphill	1
Salisbury	5	Trinity	1
Sanford	5	Troutmans	3
Scotland Neck	1	Wadesboro	1
Selma	1	Wagram	1
Seven Springs	1	Wallace	1
Shoals	2	Wananish	1
Siler City	1	Washington	1
Simms	2	Watson	1
Smithfield	1	Waxhaw	1
Sophia	1	Waynesville	1
Spencer	1	Weldon	1
Spies	1	Wendell	2
Spring Hope	1	Wentworth	1
Stantonsburg	1	West Durham	1
Statesville	6	Whiteville	1
Stedman	1	Williamston	3
Stem	1	Wilmington	4
Stokes	1	Wilson	8
Stokesdale	1	Windsor	2
Stoneville	2	Winston-Salem	12
Supply	1	Winterville	1
Tarboro	2	Woodleaf	2
Thomasville	4	Woodville	1

OUTSIDE PATIENTS EXAMINED FOR DIAGNOSIS AND CONSULTATION

July	97	February	32
August	74	March	60
September	95	April	66
October	68	May	61
November	64	June	86
December	57		
January	63	Total	823

Classification:

Ex-patients	223
Positive diagnosis	178
Negative diagnosis	422
Total	823

SUMMARY MEDICAL REPORT JULY 1, 1922, TO JUNE 30, 1923

Patients Admitted:

Incipient	100
Moderately advanced	122
Far advanced	162
Not classified	39
Not tuberculous	33
Total	456

Patients Discharged:

Arrested	3
Apparently arrested	44
Quiescent	123
Improved	131
Unimproved	58
Died	13
Not classified	13
Not tuberculous	60
Total	445

Hospital days	62,873
Number patients, July 1, 1922	151
Number patients admitted	456
Number patients discharged	445
Number patients June 30, 1923	162
State appropriation, maintenance	$85,000
Cost per patient per day	2.94
Cost per patient per day, state	1.35

REPORT OF X-RAY LABORATORY

Stereoroentgenograms of chest (Sanatorium patients)	495
Stereoroentgenograms of chest (outside patients)	186
Flat plates of other parts of body	106
Total	787
X-ray therapy	50
Gastro-intestinal studies	23

LABORATORY REPORT

Sputum:	
(Micros.)	1,877
(Chem.)	593
Total	2,470
Urinalyses:	
(Micros.)	1,262
(Chem.)	1,371
Total	2,633
Blood:	
R. B. C.	398
W. B. C.	853
Differential R. B. C.	394
Differential W. B. C.	708
Hemoglobin	393
Color index	389
Malaria	435
Wassermanns	508
Urea	186
Culture (State Lab.)	9
Coagulation determination	39
Serum	26
Total	4,338
Feces	760
Fractional Ewalds	268
Vaginal smears	99
Phthaleins	320
Guinea pig inoculations	27
Guinea pig autopsy	26
Rabbit inoculations	87
Rabbit autopsy	11
Dog phthaleins	2
Dog blood ureas	6
Dog urinalyses—Chem.	2
Dog urinalyses—Micros.	2
Dog inoculations	6
Dog autopsy	1

CO_2 tension	31
Basal metabolism determinations	71
Additional air analyses	22
Gastric analyses HCL only	29
Pus from lymph node in neck	1
Spinal fluid	4
Pleural fluid	19
Milk culture	3
Water culture	3
Culture from throat	1
Smear from throat	1
Saliva test for acid and free HCL	2
Glucose tolerance	1
Saliva reaction	4
Scales from skin eruption	1
Discharge from ear	1
Pus from axillary abscess	1
Pus from abscess	2
Total	1,814
Total examinations and tests	11,255

PRESENT CONDITION OF ALL INCIPIENT PATIENTS DISCHARGED FROM THE SANATORIUM PREVIOUS TO JUNE 30, 1922

Condition on Discharge	Condition June 30, 1923	Year Discharged									
		1914	1915	1916	1917	1918	1919	1920	1921	1922	Total
Arrested 54	Living and working	0	5	6	12	4	5	10	1	2	45
	Living and not working	0	0	0	0	0	0	7	0	0	7
	Dead	0	0	0	0	0	0	0	0	0	0
	Lost	0	0	0	1	0	1	0	0	0	2
Apparently Arrested 210	Living and working	2	6	26	31	32	15	19	15	12	158
	Living and not working	1	1	2	3	3	2	4	8	5	29
	Dead	0	1	3	3	0	5	2	1	0	15
	Lost	0	1	2	1	1	1	1	1	0	8
Quiescent 141	Living and working	3	3	9	12	12	13	15	21	9	97
	Living and not working	1	0	1	0	0	1	10	2	3	18
	Dead	1	6	3	0	0	2	1	0	0	13
	Lost	0	1	3	1	1	1	2	3	1	13
Improved 93	Living and working	0	4	12	9	11	4	8	9	4	61
	Living and not working	0	0	3	0	0	5	4	3	1	16
	Dead	0	1	0	1	2	2	0	0	0	6
	Lost	1	1	2	4	0	1	1	0	0	10
Unimproved 5	Living and working	0	0	1	1	1	0	0	0	1	4
	Living and not working	0	0	0	0	0	0	0	0	0	0
	Dead	0	0	0	1	0	0	0	0	0	1
	Lost	0	0	0	0	0	0	0	0	0	0
Total 503	Living and working	5	18	54	65	60	37	52	46	28	365
	Living and not working	2	1	6	3	3	8	25	13	9	70
	Dead	1	8	6	5	2	9	3	1	0	35
	Lost	1	3	7	7	2	4	4	4	1	33

PRESENT CONDITION OF ALL MODERATELY ADVANCED PATIENTS DISCHARGED FROM THE SANATORIUM PREVIOUS TO JUNE 30, 1922

Condition on Discharge	Condition June 30, 1923	Year Discharged									
		1914	1915	1916	1917	1918	1919	1920	1921	1922	Total
Arrested 17	Living and working	0	4	7	0	1	1	2	0	0	15
	Living and not working	0	0	1	0	0	0	0	0	0	1
	Dead	0	0	0	0	0	0	0	0	0	0
	Lost	0	0	0	1	0	0	0	0	0	1
Apparently Arrested 58	Living and working	3	0	4	6	12	5	3	6	1	40
	Living and not working	0	1	1	0	2	0	3	5	0	12
	Dead	1	1	1	1	1	0	0	0	0	5
	Lost	0	0	0	1	0	0	0	0	0	1
Quiescent 410	Living and working	5	9	17	33	27	35	19	27	21	193
	Living and not working	0	4	5	7	9	4	12	13	12	66
	Dead	15	21	39	25	16	15	3	3	1	138
	Lost	0	1	2	2	2	3	2	1	0	13
Improved 260	Living and working	5	6	10	12	12	2	13	13	9	82
	Living and not working	0	0	2	5	2	4	11	8	4	36
	Dead	21	18	20	29	18	11	11	8	1	137
	Lost	0	0	0	1	1	1	1	1	0	5
Unimproved 58	Living and working	0	0	1	0	0	1	0	1	0	3
	Living and not working	0	0	0	0	1	0	4	2	0	7
	Dead	1	5	5	4	10	7	8	5	1	46
	Lost	0	0	0	0	0	0	2	0	0	2
Total 803	Living and working	13	19	39	51	52	44	37	47	31	333
	Living and not working	0	5	9	12	14	8	30	28	16	122
	Dead	38	45	65	59	45	33	22	16	3	326
	Lost	0	1	2	5	3	4	5	2	0	22

PRESENT CONDITION OF ALL FAR ADVANCED PATIENTS DISCHARGED FROM THE SANATORIUM PREVIOUS TO JUNE 30, 1922

Condition on Discharge	Condition June 30, 1923	Year Discharged									
		1914	1915	1916	1917	1918	1919	1920	1921	1922	Total
Arrested 0	Living and working	0	0	0	0	0	0	0	0	0	0
	Living and not working	0	0	0	0	0	0	0	0	0	0
	Dead	0	0	0	0	0	0	0	0	0	0
	Lost	0	0	0	0	0	0	0	0	0	0
Apparently Arrested 1	Living and working	0	0	0	0	0	0	0	0	0	0
	Living and not working	0	0	0	0	0	1	0	0	0	1
	Dead	0	0	0	0	0	0	0	0	0	0
	Lost	0	0	0	0	0	0	0	0	0	0
Quiescent 117	Living and working	0	4	3	5	5	5	4	4	7	37
	Living and not working	0	0	1	1	3	2	4	7	3	21
	Dead	3	11	10	12	7	8	0	2	0	53
	Lost	0	1	1	3	1	0	0	0	0	6
Improved 228	Living and working	0	2	2	3	3	3	4	4	3	24
	Living and not working	0	2	2	1	2	1	2	8	12	30
	Dead	20	19	18	30	19	13	17	25	7	168
	Lost	0	0	1	1	0	1	0	2	1	6
Unimproved 235	Living and working	0	0	0	1	1	0	0	1	0	3
	Living and not working	0	0	0	0	0	0	2	3	4	9
	Dead	19	16	13	16	32	25	23	47	31	222
	Lost	0	0	0	0	0	1	0	0	0	1
Total 581	Living and working	0	6	5	9	9	8	8	9	10	64
	Living and not working	0	2	3	2	5	4	8	18	19	61
	Dead	42	46	41	58	58	46	40	74	38	443
	Lost	0	1	2	4	1	2	0	2	1	13

LITERATURE OF THE BUREAU OF TUBERCULOSIS

Bulletin No. 61:
Tuberculosis—Its Cure and Prevention.

Bulletin No. 92:
An Act to Prevent the Convicts or Prisoners of North Carolina from Contracting Tuberculosis.

Bulletin No. 129:
County Tuberculosis Problem.

Bulletin No. 202:
Tuberculosis—a Lecture for Teachers.

Bulletin No. 1000:
If There is to be Democratic Equality of Opportunity, There Must be an Equal Opportunity for Health.

Bulletin No. 1003:
Fundamental Principles of Public Health Nursing.
The Next to Go.
The Story of Four Generations.
Is Your Muffler Working or Your Cut-out Open?
They are Dead.
Résumé of the Survey of a Silk Mill Village in North Carolina.
The Tuberculosis Clinic.
The Incidence and the Importance of Pleurisy in Early Tuberculosis, by Dr. P. P. McCain, Sanatorium, N. C.
Health Bulletins of the State Board of Health for November 1920, November 1921, and December 1922.

PERSONS FROM WHOM DONATIONS WERE RECEIVED

Sunday-school literature:
Miss Grace MacKinnon, Bennettsville, S. C.

Magazines:
St. Peter's Parish House, M. D. Strong, Librarian, Morristown, N. J.
Mrs. J. R. Page, Aberdeen.
St. John's Church, Mrs. E. W. Norris, Librarian, Hampton, Va.
Mrs. G. R. White, Southern Pines, N. C.
Church Periodical Club, Mrs. Emma H. Carroll, Chairman, Philadelphia, Pa.
Miss Mary Keller, Southern Pines, N. C.

Candies, nuts, apples, etc.:
Southern Pines Civic Club, Southern Pines, N. C.
Mr. John T. Thorne, Farmville, N. C.
Miss Emma Dale, Farmville, N. C.
Pinehurst friends, Mrs. W. B. Merrill, chairman of committee.

Clothing:
Pinehurst friends, Mrs. W. B. Merrill, chairman of committee.

Potted plants and flowers:
J. J. Fallon Company, Fayetteville, N. C.
Scholtz, the Florist, Charlotte, N. C.
E. Morrelle, Florist, Southern Pines, N. C.

ORGANIZATIONS SUPPORTING AND ASSISTING IN THE SUPPORT OF PATIENTS

American Red Cross, Davidson	1
American Red Cross, Gastonia	1
American Red Cross, Goldsboro	2
American Red Cross, Greenville	1
American Red Cross, Guilford County	1
American Red Cross, Henderson	1
American Red Cross, Hickory	2
American Red Cross, Kinston	1
American Red Cross, Maxton	1
American Red Cross, Salisbury	1
American Red Cross, Sandhill Chapter, Aberdeen	6
American Red Cross, Raleigh	1
Altamahaw Cotton Mills, Altamahaw	1
Baptist Church, Oxford	1
Board of Commissioners, Mecklenburg	1
Board of Commissioners, Stanly	4
Board of Commissioners, Surry	1
Board of Commissioners, Watauga	1
Centre Brick Warehouse, Wilson	1
Council Tool Company, Wananish	1
District Nurse and Relief Society, Greensboro	1
Durham Hosiery Mills, Durham	1
Erlanger Cotton Mills, Erlanger	1
Health Department, Charlotte	1
Health Department, Durham	2
Health Department, Winston-Salem	1
Kiwanis Club, Wilson	1
Lawrence S. Holt & Sons, Burlington	1
Loray Emergency Association, Gastonia	1
McLoren Tire Company, Charlotte	1
Methodist Church, Spencer	1
Missionary Society, Baptist Church, Laurinburg	1
Mutual Building and Loan Association, Charlotte	2
National Guards, Durham	1
Norwood Manufacturing Company, Norwood	1
N. C. Federation of Women's Clubs, McBrayer Memorial Bed Fund	5
Popular Fund, Durham	1
Popular Fund, Raleigh	1
Popular Fund, Thomasville	1
Popular Fund and Public Welfare, Boone	1
Presbyterian Sunday School, Charlotte	1
Presbyterian Orphan's Home, Barium Springs	1
Public Welfare, Clinton	1
Public Welfare, Greenville	1
Public Welfare, Hickory	1
Public Welfare, High Point	1
Public Welfare, Kinston	2
Public Welfare, Smithfield	1
Public Welfare, Thomasville	1
Roanoke Mills Company, Roanoke Rapids	1
Rosemary Manufacturing Company, Rosemary	1
Rotary Club and Popular Fund, Salisbury	1
Royal Arch Masons, Greensboro	1
R. R. Brotherhood, Raleigh	1
St. Peter's Episcopal Church, Charlotte	1
Salisbury Cotton Mills, Salisbury	1
Shelby Cotton Mills, Shelby	1
State School for Blind, Raleigh	1
Philathea Class, Brown Memorial Baptist Church, Winston-Salem	1

Tuberculosis Association, Burlington	2
Tuberculosis Association, Cabarrus County	1
Tuberculosis Association, Concord	7
Tuberculosis Association, Davidson	1
Tuberculosis Association, Greensboro	1
Tuberculosis Association, Raleigh	3
Tuberculosis Association, Roanoke Rapids	1
Tarboro Knitting Company, Tarboro	1
Woman's Club, Raleigh	1
United Daughters of the Confederacy, Free Bed Fund	4
Young Men's Christian Association, Kannapolis	1
Young Women's Christian Association, Durham	1

REPORT OF AUDIT

Raleigh, N. C., November 14, 1923.

Hon. Baxter Durham,
State Auditor,
Raleigh, N. C.

Dear Sir:—In accordance with your instruction, we have audited the records and accounts of the North Carolina Sanatorium of Sanatorium, N. C., for a period beginning July 1, 1922, and ending June 30, 1923, and herewith submit the following report as a result of said audit.

We made our first trip to said institution during the month of May to check out the retiring bookkeeper, and then during the month of October to complete the audit.

In most of our North Carolina institutions the books are kept purely on a receipt and disbursement basis, and our audit shows that the books are neatly and accurately kept and all funds received properly accounted for, though in many instances the expenditures are erroneously classified, and without a reclassification it is impossible to make an accurate operating cost statement, and to attempt this at this late date would consume too much time and would not justify the expense. We cite the following instances for your information: In Schedule 8 there appears an item of $4,700.89, classified as miscellaneous expense. This was for equipment of various kinds for the different departments of the institution and was paid for from maintenance fund and receipts from patients. Schedule 7 shows miscellaneous expenditures amounting to $11,857.24. Transportation and drayage and freight and express show large amounts. These accounts should be thoroughly classified and charged to specific accounts.

We call special attention to the operating cost shown by Schedule 8, which shows only cash expenditures and transfers from dairy, farm and hoggery, and does not include anything for depreciation of the fixed assets, which is a legitimate part of the operating and maintenance expense. Our reason for not including this charge in our statement is because it was impossible to ascertain the exact amount that should be charged to the period under review on account of the fact that during this period the old power plant had become useless and was discarded and it would have been unfair to have this period bear this full amount ($65,344.84). There was also charged off during this period repairs to old buildings amounting to $32,991.08. For these reasons we have made a statement of expenses and transfers, but have instructed the new bookkeeper what will be necessary for the future.

I regard the present system as thorough and complete as is used in any State institution that I have seen, and I believe is entirely adequate to the needs of this institution, when a thorough classification is made of all receipts and expenditures and definite instruction has been given by the proper authorities as to what part of the equipment should be

charged to maintenance and what part to permanent improvements. The present bookkeeper is competent and interested in his work and has improved the classification.

I realize the fact that being many miles from any bank and the necessity of having a large amount of cash on hand to buy judiciously of country produce or to meet any immediate needs that the institution has, that a large amount of cash purchases have been made, but the receipts reconciled with the bank balances and the cash on hand; but I believe a better plan would be to run a petty cash account, drawing a voucher for a sufficient sum to meet the monthly needs, to keep said amount in a separate drawer, and to make the deposits agree with the daily receipts.

I desire to call your especial attention to a matter that needs to be adjusted with the State Treasurer: The appropriations for the past year were as follows: Permanent improvements, $199,500, extension fund, $15,000, and maintenance, $85,000, making a total of $299,500. The State Treasurer has deposited in the Page Trust Compny of Aberdeen to the credit of the institution the sum of $290,550.58, leaving a balance of $8,949.42. The Treasurer's books show that this balance is due on maintenance, which if not spent during the period reverts to the State, while permanent improvement appropriations remain still due. It is claimed at the institution that they had no notice as to what the amount sent covered, and they show that this amount is due on permanent improvements. I have not used this amount in my list of assets, as I thought best to wait until the matter was adjusted.

During my examination every courtesy was extended me and every facility offered to secure the information desired.

Respectfully submitted,

J. J. BERNARD,

Certified Public Accountant.

INDEX TO AUDIT

Exhibit	"A"	Balance Sheet—Assets and Liabilities.
	"B"	Receipts and Disbursements.
Schedule	"1"	Reconciliation of Cash Account.
	"2"	Fixed Assets.
	"3"	Inventories.
	"4"	Reconciliation of Bank Balances.
	"5"	Accounts Payable—Unearned Receipts.
	"6"	Trial Balance.
	"7"	Summary of Disbursements.
	"8"	Operating Cost of Institution.
	"9"	Dairy—Profit and Loss Account.
	"10"	Hogs—Profit and Loss Account.
	"11"	Farm—Profit and Loss Account.
	"12"	Recapitulation of Milk Production.
	"13"	Monthly Salaries.

BALANCE SHEET, JULY 1, 1923

Exhibit "A"

ASSETS AND LIABILITIES

Assets

Cash in drawer	$ 2,662.80	
Cash in Page Trust Company, Aberdeen, N. C.	12,964.68	
Cash in Page Trust Company, Raeford, N. C.	28,156.93	
Fixed Assets, Schedule 2	690,567.35	
Inventories, Schedule 3	95,800.29	
Total assets		$830,152.05

Liabilities

Outstanding vouchers, Page Trust Company, Aberdeen, N. C.	$ 12,554.55	
Outstanding vouchers, Page Trust Company, Raeford, N. C.	26,570.13	
Accounts payable, Schedule 5	15,575.26	
Unearned receipts, Schedule 5	2,700.00	
Total liabilities		57,399.94
Balance, net worth July 1, 1923		$772,752.11

Exhibit "B"

RECEIPTS AND DISBURSEMENTS

Fiscal Year Ending June 30, 1923

RECEIPTS

State Appropriations

Permanent improvement fund	$190,550.58	
Extension fund	15,000.00	
Maintenance	85,000.00	
Total		$290,550.58

Sanatorium Earnings

Board and treatment	$ 96,569.79	
X-ray examinations	1,899.50	
Total		98,469.29

Intertrading Accounts

Laundry	$ 2,097.48	
Hospital supplies	1,729.09	
Telephone and telegraph	386.57	
Farms	1,762.87	
Provisions	440.52	
Dairy	6.25	
Transportation and drayage	19.02	
Refrigeration	115.00	
Hogs	72.00	
Old laundry machinery	500.00	
Miscellaneous	187.30	
Total		7,316.10
Total receipts		$396,335.97

DISBURSEMENTS

PERMANENT IMPROVEMENTS

	State Fund	Sanatorium Fund	Total
Repairs and equipment, operating room and infirmary	$ 197.52		
Negro Sanatorium	68,484.90		
Dining-room and kitchen	72,918.10		
Assistant Superintendent's residence	1,819.96		
Repairs to Flannagan Cottage	1,394.18		
Kitchen equipment	10,569.39		
Power-house and laundry	30,488.46		
Light equipment and power	566.58		
Ice plant	13,050.00		
Sewerage	2,555.17		
Laboratory equipment	270.00		
Cow barns and silos	712.65		
Negro physician residence	7,856.50		
Total	$210,883.41		$ 210,883.41

EXTENSION FUND

Salaries	$ 9,175.00		
Traveling expenses	2,288.47		
Furniture and fixtures	525.86		
Books and stationery	2,250.05		
Stamps	621.35		
Miscellaneous	139.27		
Total	$ 15,000.00		15,000.00

MAINTENANCE

Salaries:			
Medical	$ 9,183.80	$ 1,388.23	
Executive	3,722.54	961.66	
Nurses and attendants	4,573.95	574.00	
Cooks and servants	12,698.16	334.12	
Miscellaneous		960.00	
Total	$ 30,178.45	$ 4,218.01	34,396.46
Supplies:			
Bedding and linen	$ 1,962.02	$ 2,533.33	
Crockery and silver	797.00	2,359.18	
Drugs and medicine	1,157.15	1,554.27	
Miscellaneous	4,963.77	2,927.09	
Total	$ 8,879.94	$ 9,373.87	18,253.81
Provisions:			
Meats	$ 6,289.05	$ 12,491.23	
Butter	834.13	1,897.42	
Eggs	2,230.71	4,242.60	
Vegetables and fruit	1,851.38	3,853.89	
Groceries	5,342.34	14,046.92	
Total	$ 16,547.61	$ 36,532.06	53,079.67

	State Fund	Sanatorium Fund	Total
Equipment:			
Furniture and fixtures	$ 125.46	$ 11,680.38	
Instruments	80.63	317.04	
Miscellaneous	193.06		
Total	$ 399.15	$ 11,997.42	$ 12,396.57
Office:			
Equipment	$ 28.31	$ 28.74	
Stationery and books	91.99	186.61	
Stamps	36.50	499.00	
Miscellaneous	158.98	5.96	
Total	$ 315.78	$ 720.31	1,036.09
Power and Heat:			
Labor	$ 1,601.75	$ 168.37	
Supplies	4,876.49	9,456.18	
Total	$ 6,478.24	$ 9,624.55	16,102.79
Light:			
Labor	$ 500.50	$ 45.00	
Supplies	60.86	214.44	
Equipment		111.84	
Total	$ 561.36	$ 371.28	932.64
Water:			
Labor	$ 499.00	$ 47.40	
Equipment	344.55	4.00	
Supplies	29.72	109.52	
Total	$ 873.27	$ 160.92	1,034.19
Refrigeration:			
Labor	$ 498.00	$ 45.00	
Equipment	14.80	.70	
Supplies		25.70	
Total	$ 512.80	$ 71.40	584.20
Plumbing and Sewerage:			
Labor	$ 498.00	$ 47.00	
Equipment	21.00	33.87	
Supplies	47.04	6.25	
Tile		350.40	
Miscellaneous		29.25	
Total	$ 566.04	$ 466.77	1,032.81
Farms:			
Buildings	$ 81.24	$ 1,703.63	
Live-stock	450.00	275.00	
Machinery and tools	625.23	771.20	
Seeds and fertilizers	2,592.33	604.97	
Feed	535.14	3,187.75	
Labor	1,687.22	4,054.51	
Miscellaneous		59.63	
Total	$ 5,971.16	$ 10,656.69	16,627.85

	State Fund	Sanatorium Fund	Total
Dairy:			
Repairs, buildings and silos	$ --------	$ 137.00	
Live-stock	961.48	446.31	
Fixtures	462.74	222.12	
Supplies	425.69	696.05	
Feed	1,015.16	8,742.60	
Labor	2,108.09	345.44	
Miscellaneous	9.00	27.78	
Total	$ 4,982.16	$ 10,617.30	$15,599.46
Miscellaneous:			
Labor	$ 77.35	$ 491.64	
Training School	52.57	259.68	
Telephone and telegraph	867.68	443.00	
Laundry	2,568.26	4,348.57	
Transportation and drayage	1,409.44	1,516.22	
Patients refund	374.68	2,247.35	
Freight and express	152.59	1,639.92	
Hogs	53.25	1,101.41	
Landscape	52.80	----------	
X-ray	1,104.95	1,094.22	
Laboratory	238.64	258.29	
Live-stock	234.00	----------	
Service wagon	243.43	----------	
Furniture and fixtures, Superintendent's residence	146.59	----------	
Directors' expense	141.51	----------	
Repairs Spruill Cottage	1,016.30	----------	
Extra employees' house	--------	975.70	
Colored building	--------	709.24	
Power house	--------	3,211.42	
Refectory	--------	1,489.47	
Awnings for buildings	--------	566.00	
Total	$ 8,734.04	$ 20,352.03	29,086.07
Total disbursements			$426,046.02

GENERAL SUMMARY

Balances July 1, 1922:		
Cash in office		$ 2,420.45
Cash in Page Trust Company, Aberdeen		46,768.20
Cash in Page Trust Company, Raeford		14,365.98
Total		$ 63,554.63
Less Outstanding Vouchers:		
Page Trust Company, Aberdeen	$ 26,025.24	
Page Trust Company, Raeford	3,159.61	
Total outstanding		29,184.85
True balance July 1, 1922		$ 34,369.78

RECEIPTS

From State of N. C.:			
Permanent improvements	$190,550.58		
Extension	15,000.00		
Maintenance	85,000.00		
Total		$290,550.58	
Sanatorium earnings	$ 98,469.29		
Intertrading accounts	7,316.10		
Total		105,785.39	
Total to account for			$430,705.75

DISBURSEMENTS

Permanent improvements	$210,883.41		
Extension	15,000.00		
Maintenance	85,000.00		
Total appropriation expenditures		$310,883.41	
aintenance from earnings		115,162.61	
Total disbursements			426,046.02
Balance on hand July 1, 1923			$ 4,659.73

BANK RECONCILIATION

Cash in office	$ 2,662.80	
Cash in Page Trust Company, Aberdeen	12,964.68	
Cash in Page Trust Company, Raeford	28,156.93	
Total	$ 43,784.41	
Outstanding Vouchers July 1, 1923:		
Page Trust Company, Aberdeen	$ 12,554.55	
Page Trust Company, Raeford	26,570.13	
Total	39,124.68	
Balance as above		$ 4,659.73

SCHEDULE "I"

RECONCILIATION OF CASH ACCOUNT

FISCAL YEAR ENDING JUNE 30, 1923

RECEIPTS

1922	
July	$ 8,129.95
August	9,350.72
September	9,523.87
October	10,044.99
November	8,265.01
December	8,610.17
1923	
January	10,545.00
February	7,780.65
March	9,197.01
April	8,585.96

May	$ 8,139.68	
June	7,612.38	
Total receipts		$105,785.39
Cash in office July 1, 1922		2,420.45
Total to account for		$108,205.84

DEPOSITS PAGE TRUST COMPANY, RAEFORD

1922		
July	$ 8,400.00	
August	8,406.04	
September	9,698.21	
October	10,510.11	
November	6,306.82	
December	10,474.97	
1923		
January	11,122.80	
February	8,096.36	
March	8,356.00	
April	9,174.62	
May	6,637.16	
June	8,359.95	
Total deposits for year		105,543.04
Balance in cash drawer July 1, 1923		$ 2,662.80

SCHEDULE "2"

FIXED ASSETS JULY 1, 1923

Hospital grounds	$ 20,000.00
Farms	34,750.00
Administration building and infirmary	248,000.00
Negro Sanatorium	85,768.92
Dining hall and kitchen	99,213.37
Gordon Cottage	7,125.00
Nurses' home	11,400.00
Superintendent's residence	9,500.00
Assistant Superintendent's residence	11,800.00
Power plant and laundry	42,000.00
Flannagan cottage	16,000.00
Sunshine cottage	3,150.00
Physician's residence	4,165.00
Negro physician's residence	8,832.20
Servants' quarters	10,800.00
Nurses' annex	3,197.00
Farm residence	3,000.00
Barns and silos	30,184.96
Power and water plant	16,299.00
Well No. 2	7,000.00
Telephone system	1,500.00
Sewer system	14,000.00
Landscape	2,881.90
Total	$690,567.35

SCHEDULE "3"

INVENTORIES JULY 1, 1923

Farm:	
Supplies	$ 1,624.25
Machinery, tools and equipment	3,068.75
Live-stock	1,875.00

Dairy:		
Supplies	$ 5,985.15	
Herd	14,735.00	
Hogs	5,253.00	
Furniture and fixtures:		
Hospital	14,621.75	
Dining hall and kitchen	3,366.00	
Superintendent's residence	653.00	
Nurses' home	1,200.00	
Bedding and linen	6,957.89	
Crockery and silver	2,721.41	
Drugs and medicine	2,899.50	
Hospital supplies	6,608.86	
Provisions	4,712.68	
Training School books	226.81	
Patients' Library	1,135.00	
Business office, supplies	203.30	
Business office, equipment	376.15	
Extension office, supplies	2,355.82	
Extension office, equipment	4,058.32	
Laboratory and medical, equipment	10,492.65	
Transportation and drayage, equipment	670.00	
Total		$ 95,800.29

SCHEDULE "4"

RECONCILIATION OF BANK BALANCES

FISCAL YEAR ENDING JUNE 30, 1923

PAGE TRUST COMPANY, ABERDEEN, N. C.

Balance in bank July 1, 1922	$ 46,768.20		
Deposits by State Treasurer	290,550.58		
Total		$337,318.78	
Vouchers drawn during period	$310,883.41		
Vouchers outstanding June 30, 1922	26,025.24		
Total		336,908.65	
Balance June 30, 1923			$ 410.13

BANK RECONCILIATION

Balance as per statement, July 1, 1923	$ 12,964.68	
Outstanding vouchers, July 1, 1923	12,554.55	
Balance as above		410.13

Deposits:

1922	
July	$ 25,000.00
September	36,666.66
October	36,666.67
November	22,000.00
December	25,166.67
1923	
January	12,333.33
February	16,666.67

March	$ 25,000.00
April	33,333.33
May	50,000.00
June	7,717.25
Total	$290,550.58

PAGE TRUST COMPANY, RAEFORD, N. C.

Balance in bank July 1, 1922	$ 14,365.98		
Deposits during period	105,543.04		
Total		$119,909.02	
Vouchers drawn during period	$115,162.61		
Outstanding vouchers July 1, 1922	3,159.61		
Total		118,322.22	
Balance July 1, 1923			$ 1,586.80

BANK RECONCILIATION

Balance as per statement July 1, 1923	$ 28,156.93	
Vouchers outstanding July 1, 1923	26,570.13	
Balance as above		$ 1,586.80

OUTSTANDING VOUCHERS, JULY 1, 1923, PAGE TRUST COMPANY ABERDEEN, N. C.

Number	*Amount*	*Number*	*Amount*
1891	$ 230.00	1422	150.00
2250	4.75	1423	140.00
2402	3.02	1424	45.00
2404	19.60	1425	100.00
1338	40.00	1426	100.00
1369	34.77	1427	325.00
1383	400.00	1428	61.00
1398	55.17	1429	100.00
1399	9.00	1430	75.00
1400	90.55	1431	110.25
1401	250.00	1432	195.85
1402	100.00	1433	459.00
1403	100.00	1434	11.76
1404	100.00	1435	368.88
1405	50.00	1436	12.00
1406	50.00	1437	24.08
1407	50.00	1438	122.00
1408	40.00	1439	237.60
1409	200.00	1440	213.75
1410	83.33	1441	6.05
1411	25.00	1442	280.85
1412	250.00	1443	53.26
1413	200.00	1444	234.00
1414	200.00	1445	36.54
1415	150.00	1446	77.01
1416	40.00	1447	1,016.30
1417	30.67	1448	1,231.15
1418	62.50	1449	74.57
1419	60.00	1450	5.00
1420	40.00	1451	17.85
1421	100.00	1452	61.55

Number	Amount	Number	Amount
1453	$ 196.31	1477	$ 62.69
1454	7.87	1478	48.24
1455	31.65	1479	203.00
1456	971.65	1480	60.00
1457	120.00	1481	14.97
1458	4.04	1482	5.74
1459	8.60	1483	8.56
1460	3.60	1484	4.20
1461	28.27	1485	34.35
1462	184.50	1486	81.59
1463	171.32	1489	17.00
1464	18.00	1490	5.70
1465	3.00	1491	33.22
1466	26.16	1492	61.34
1467	132.75	1493	4.69
1468	344.01	1494	54.00
1469	9.58	1495	100.00
1470	13.47	1496	41.90
1471	21.28	1497	94.25
1472	25.28	1498	65.67
1473	50.85	1499	31.00
1474	13.70	1500	94.35
1475	4.01		
1476	23.93	Total	$12,554.55

OUTSTANDING VOUCHERS, JULY 1, 1923, PAGE TRUST COMPANY, RAEFORD, N. C.

Number	Amount	Number	Amount
2319	$ 7.60	641	$ 86.25
179	3.53	642	1.96
692	2.77	643	88.61
306	7.45	644	3.03
1145	.35	645	2.28
595	12.85	646	622.67
623	2.00	647	6.91
625	100.09	648	12.89
627	24.69	649	26.46
628	438.61	650	10.30
629	83.05	651	29.24
630	1,965.41	652	87.41
631	1,030.77	653	14.00
632	1,740.75	654	11.58
633	674.11	655	960.00
634	109.78	656	133.00
635	25.01	657	45.41
636	60.99	658	55.49
637	26.46	659	108.58
638	99.58	660	71.28
639	639.63		
640	9.00	Amount forward	$ 9,446.83

Number	*Amount*	*Number*	*Amount*
Amount forward	$ 9,446.83	681	$ 16.50
661	162.45	682	33.75
662	11.60	683	152.25
663	35.22	684	118.10
664	1.00	685	300.00
665	30.37	686	108.00
666	3.76	687	600.00
667	106.75	688	1,790.54
668	71.39	689	2,174.49
669	122.67	690	47.46
670	7.14	691	27.25
671	122.41	692	266.00
672	168.97	693	2,500.00
673	95.62	694	55.57
674	2.10	695	313.68
675	15.04	696	5,126.95
676	7.90	697	1,422.76
677	4.90	698	36.72
678	423.00		
679	136.09	Total	$26,570.13
680	504.00		

SCHEDULE "5"

ACCOUNTS PAYABLE JULY 1, 1923

Hopkins Bargain House:		
400 blankets @ $2.75	$ 1,100.00	
50 dozen linen crash towels @ $1.50	75.00	
20 dozen slipover mattress protectors @ $12.00	240.00	
		$ 1,415.00
Pomona Terra-cotta Company, 2 cars sewer tile		665.00
Furniture for dining-room, etc.		6,331.95
Furniture for auditorium		600.00
Repairs McAnulty Cottage (estimated)		1,500.00
Linen, sheets, and pillowcases		1,000.00
Kitchen		680.31
Shades		252.00
Electric fixtures:		
Ceiling fans for dining-room	$ 842.00	
Fixtures for dining-room	894.00	
Negro Sanatorium cottage	842.00	
		2,578.00
Screens:		
Dining-room, Negro Sanatorium, Negro cottage		553.00
Total		$ 15,575.26
Unearned receipts (estimated)		$ 2,700.00

SCHEDULE "6"

TRIAL BALANCE JULY 1, 1923

	Dr.	Cr.
Surplus	$ --------	$971,637.48
Real estate, hospital grounds	19,944.74	
Gordon cottage	7,500.00	
Negro Sanatorium	85,768.92	
Nurses' home	12,000.00	
Superintendent's residence	10,000.00	
Assistant Superintendent's residence	12,326.45	
Dining hall and kitchen	99,213.37	
Well No. 2	7,000.00	
Administration building	260,756.12	
Power plant and laundry	42,446.73	
Flannagan cottage	16,847.18	
Servants' quarters (colored)	12,000.00	
Nurses' annex	3,552.00	
Physicians' residence	4,516.30	
Sunshine cottage	3,500.00	
Farm operating account	713.80	
Repairs old building	32,991.08	
Real estate—Farms	34,831.24	
Farm machinery and equipment	3,864.88	
Farm live-stock	1,775.00	
Farm residence	2,996.63	
Dairy operating account		77.25
Dairy barns and silos	30,184.96	
Dairy live-stock	16,572.83	
Hogs	3,213.21	
Furniture and fixtures—Hospital	17,744.87	
Furniture and fixtures—Dining hall and kitchen	8,974.00	
Furniture and fixtures—Superintendent's residence	1,133.33	
Furniture and fixtures—Nurses' home	1,050.00	
Bedding and linen	11,279.52	
Crockery and silverware	4,051.91	
Drugs and medicine	5,160.92	
Hospital	11,790.60	
Provisions	81,109.89	
Training school books	510.41	
Power, heat, light and water	81,643.84	
Telephone system	2,424.11	
Patients' library	135.00	
Buisness office—Supplies	1,210.00	
Business office—Equipment	449.05	
Extension office—Supplies	4,121.72	
Extension office—Equipment	4,621.54	
Laboratory and medical office equipment	12,649.10	
Sewer system	14,467.59	
Transportation and drayage equipment	4,696.13	
Landscape	2,881.90	
Permanent improvements	2,078.01	
Appropriations		2,078.01
Patients' board and treatment		96,569.79
Page Trust Company, Raeford balance	1,586.80	
Page Trust Company, Aberdeen balance	410.13	
Salaries and wages	46,427.92	
Laundry account	4,819.35	
Patients' refund	2,621.93	
Freight and express	1,792.51	
Sale old laundry machinery		500.00
Negro physician's residence	8,832.20	
Cash in drawer	2,662.80	
Totals	$ 1,070,852.53	$1,070,852.53

SUMMARY OF DISBURSEMENTS

FISCAL YEAR ENDING JUNE 30, 1923

SCHEDUDE "7"

	Permanent Improvements	Extension	Provisions	Equipment	Salary and Wages	Supplies	Repairs	Live Stock	Miscellaneous	Total
Exhibit "B," page 1	$210,883.41	$ 15,000.00	$	$	$	$	$	$	$	$225,883.41
Hospital			53,079.67	12,396.57	34,396.46	18,253.81				118,126.51
Office				57.05		979.04				1,036.09
Power and heat					1,770.12	14,332.67				16,102.79
Light				111.84	545.50	275.30				932.64
Water				348.55	546.40	139.24				1,034.19
Refrigeration				15.50	543.00	25.70				584.20
Plumbing and sewerage				54.87	545.00	82.54	350.40			1,032.81
Farm				1,396.43	5,741.73	6,979.82	1,784.87	725.00		16,627.85
Dairy				684.86	2,453.53	10,916.28	137.00	1,407.79		15,599.46
Training school									312.25	312.25
Telephone and telegraph									1,310.68	1,310.68
Laundry									6,916.83	6,916.83
Transportation and drayage									2,925.66	2,925.66
Patients' refund									2,621.93	2,621.93
Freight and express									1,792.51	1,792.51
Hogs									1,154.66	1,154.66
Landscape									52.80	52.80
Expenses board of directors									141.51	141.51
Miscellaneous	4,700.89			2,060.97	1,544.69	1,591.15	1,725.54	234.00		11,857.24
Totals	$215,584.30	$ 15,000.00	$ 53,079.67	$ 17,126.64	$ 48,086.43	$ 53,575.55	$ 3,997.81	$ 2,366.79	$ 17,228.83	$ 426,046.02

SCHEDULE "8"

OPERATING COST OF HOSPITAL

FISCAL YEAR ENDING JUNE 30, 1923

Provisions purchased	$ 53,079.67		
Dairy transfers	20,890.04		
Farm transfers	3,328.65		
Hoggery transfers	1,683.20		
	$ 78,981.56		
Less sale of provisions	440.52		
Total		$ 78,541.04	
Salary and wages		39,891.17	
Supplies	$ 35,679.45		
Less sales	1,729.09		
Total		33,950.36	
Repairs		2,075.94	
Training School		312.25	
Telephone and telegraph	$ 1,310.68		
Less collected tolls	386.57		
Total		924.11	
Laundry	$ 6,916.83		
Less collected from patients	2,097.48		
Total		4,819.35	
Transportation and drayage	$ 2,925.66		
Less collected from patients	19.02		
Total		2,906.64	
Freight and express		1,792.51	
Expenses Board of Directors		141.51	
Miscellaneous	$ 4,700.89		
Less miscellaneous sales	187.30		
Total		4,513.59	
Total operating cost			$169,868.47

Average number patients	167
Average daily cost per patient	$2.79
Average number employees	63

SCHEDULE "9"

DAIRY—PROFIT AND LOSS ACCOUNT

JULY 1, 1922, TO JUNE 30, 1923

Gross sales			$ 20,611.33
Inventory July 1, 1922		$ 2,112.65	
Expenditures		18,421.43	
		$ 20,534.08	
Less inventory June 30, 1923		5,985.15	14,548.93
Gross profit on operation			$ 6,062.40
Live-stock—expense		$ 1,837.83	
Net gain		4,224.57	
		$ 6,062.40	$ 6,062.40

SCHEDULE "10"

HOGS—PROFIT AND LOSS ACCOUNT

Gross sales		$ 1,755.20
Inventory July 1, 1922	$ 3,257.25	
Expenditures	1,711.16	
	$ 4,968.41	
Less inventory June 30, 1923	5,253.00	
Balance	$ —284.59	
Net gain	2,039.79	
	$ 1,755.20	$ 1,755.20

SCHEDULE "11"

FARM—PROFIT AND LOSS ACCOUNT

Gross sales		$ 13,090.64
Inventory July 1, 1922	$ 475.85	
Expenditures	13,328.59	
Total	$ 13,804.44	
Inventory of June 30, 1923	1,624.25	12,180.19
Gross profit on operation		$ 910.45
Real estate	$ 81.24	
Machinery and equipment	796.13	
Live-stock	----------	100.00
Residence	----------	3.37
Net gain	136.45	
	$ 1,013.82	$ 1,013.82

SCHEDULE "12"

RECAPITULATION OF MILK PRODUCTION JULY 1, 1922, TO JUNE 30, 1923

Month	*Pounds Produced*
1922	
July	26,157.30
August	25,552.52
September	21,865.56
October	25,366.51
November	20,623.70
December	21,980.50
1923	
January	20,169.70
February	20,107.70
March	19,810.00
April	22,275.10
May	24,563.60
June	23,414.30
Total pounds	271,886.49
	or
33,985.80 gallons @ 60 cents	$ 20,391.48

SCHEDULE "13"

MONTHLY SALARIES

	Total	Extension	Maintenance
EXECUTIVE:			
Dr. L. B. McBrayer, Superintendent	$ 333.33	$ 250.00	$ 83.33
Dr. P. P. McCain, Asst. Supt.	250.00		250.00
Dr. R. McBrayer, Physician	200.00		200.00
Dr. S. M. Bittinger, Physician	200.00		200.00
Dr. J. H. Williams, Physician	150.00		150.00
Dr. J. W. Walker, Col. Physician	200.00	200.00	
Total	$1,333.33	$ 450.00	$ 883.33
OFFICE:			
F. L. Eubanks, bookkeeper	$ 100.00		$ 100.00
H. O. Sink, chief clerk	100.00	$ 100.00	
Mrs. H. O. Sink, stenographer	100.00	100.00	
Mrs. C. W. Covington, stenographer	100.00	100.00	
Mrs. J. H. Williams, stenographer	50.00	50.00	
Miss Sibyl Brabble, stenographer	50.00	50.00	
Miss Mary Bulla, stenographer	25.00	25.00	
P. A. Fore, assistant clerk	75.00	75.00	
Total	$ 600.00	$ 500.00	$ 100.00
LABORATORY:			
Miss Lois Hunnicutt, technician	$ 100.00		$ 100.00
Miss Maude Mann, technician, clerical	40.00		40.00
Total	$ 140.00		$ 100.00
NURSES:			
Miss E. Connolly, head nurse	$ 125.00		$ 125.00
Miss Sue Burton, graduate nurse	60.00		60.00
Miss K. Satterwhite, graduate nurse	60.00		60.00
Miss E. Darden, nurse	10.00		10.00
Miss V. Lancaster, nurse	10.00		10.00
Miss Sadie Wagner, nurse	10.00		10.00
Miss Della Vestal, nurse	10.00		10.00
Miss Nauva Cherry, nurse	10.00		10.00
Miss Ethel Smithy, nurse	10.00		10.00
Miss Margaret Darden, nurse	10.00		10.00
Miss Bessie McGinnis, nurse	10.00		10.00
Miss Willie Askew, nurse	10.00		10.00
Miss M. McAdams, nurse	10.00		10.00
J. W. Reece, attendant	10.00		10.00
E. L. White, attendant	10.00		10.00
Total	$ 365.00		$ 365.00
ATTENDANTS:			
E. B. Satterwhite, telephone	$ 40.00		$ 40.00
Miss M. Flanagan, housekeeper	40.00		40.00
Total	$ 80.00		$ 80.00

	Total	Extension	Maintenance
DINING-ROOM AND KITCHEN:			
F. D. Cliff, steward	$ 150.00		$ 150.00
Monroe Rowland, cook	100.00		100.00
Frank Wiley, cook	100.00		100.00
Gilbert McGregor, cook	50.00		50.00
J. D. Bandy, waiter	30.00		30.00
Nathan Patterson, waiter	30.00		30.00
Will Smith, waiter	30.00		30.00
Frank Harrison, waiter	45.00		45.00
Clarence Fowler, waiter	37.50		37.50
Cary Harrison, orderly	50.00		50.00
Arthur McGregor, waiter	30.00		30.00
Henry McEachin, waiter	30.00		30.00
Gus Miller, waiter	45.00		45.00
Tinsie Fowler, waiter	25.00		25.00
W. M. Holmes, servant	25.00		25.00
McKinney Patterson, servant	25.00		25.00
R. McLoughlin, servant	25.00		25.00
James McPhaul, servant	25.00		25.00
Leroy Sorrell, servant	25.00		25.00
John Davis, servant	25.00		25.00
John Reeves, servant	25.00		25.00
John Stalk, servant	25.00		25.00
Irving Davis, servant	20.00		20.00
Ella Stalk, maid	17.50		17.50
Mary Davis, maid	17.50		17.50
Effie Goodgain, maid	17.50		17.50
Iva Harrison, maid	17.50		17.50
Nola McEachin, maid	17.50		17.50
Total	$1,060.00		$1,060.00
GENERAL SERVANTS:			
Andy Henderson	$ 30.00		$ 30.00
James Fowler	45.00		45.00
Howard Fowler	45.00		45.00
Total	$ 120.00		$ 120.00
MISCELLANEOUS:			
Frank Mizzell, superintendent building construction	$ 240.00		$ 240.00
I. E. McAnulty, engineer	150.00		150.00
A. B. Freeman, assistant engineer	150.00		150.00
W. G. Young, fireman	75.00		75.00
Robert Peebles, fireman	75.00		75.00
T. H. Redmond, laundryman	100.00		100.00
Total	$ 790.00		$ 790.00
FARM AND DAIRY:			
L. B. McBrayer, Jr., superintendent	$ 100.00		$ 100.00
Regan Byrd and family, dairyman	150.00		150.00
E. Fowler, laborer	45.00		45.00
W. Fowler, laborer	30.00		30.00
J. Lowe, laborer	45.00		45.00
P. Richardson, laborer	40.00		40.00
M. Cunningham, laborer	40.00		40.00
C. Cunningham, laborer	40.00		40.00
R. Cunningham, laborer	40.00		40.00
Total	$ 530.00		$ 530.00
Total salaries of institution	$5,018.33	$ 950.00	$4,068.33

SUMMARY STATEMENT OF FIRE LOSS AT THE NORTH CAROLINA SANATORIUM, SANATORIUM, N. C.

Loss by fire:		
Old dining-room, kitchen, and equipment		$20,683.00
New building		23,401.00
Food supplies		750.00
Total loss		$44,834.00
Replacement cost:		
New building	$23,401.00	
Equipment	10,683.00	
Food supplies	750.00	
Total cost of replacement	$34,834.00	
Omit rebuilding old kitchen		10,000.00
		$34,834.00

By reference to replacement statement, it is noted that the cost of reconstructing old kitchen has been omitted, as the institution at this time does not consider this necessary, which leaves a total net loss of $34,834. This amount is needed at the earliest possible moment to provide for replacing the damaged building and equipment.

Fire insurance on the above loss is partially covered through policy issued with the Insurance Commissioner, which amounts to approximately $4,550. Such part of it that may be recovered will be credited to the total cost of replacement.

An itemized statement in detail covering all items upon which this statement is based is on file with the Superintendent of the Sanatorium, and with Mr. H. A. Underwood, engineer, Joint Building Committee.

Respectfully submitted,

North Carolina Sanatorium,
By L. B. McBrayer, *Superintendent.*

Joint Building Committee,
By H. A. Underwood, *Engineer.*

Raleigh, N. C., January 15, 1923.

WEEKS COLLECTION

REPORT OF THE STATE SANATORIUM FOR THE TREATMENT OF TUBERCULOSIS BY DR. J. E. BROOKS, SUPT.

TO HIS EXCELLENCY, THE GOVERNOR AND THE GENERAL ASSEMBLY OF NORTH CAROLINA:—

In response to a call, the Board of Directors of the State Sanatorium for the Treatment of Tuberculosis met April 24, 1907, at Jackson Springs, N. C. The said Board organized by electing Dr. J. R. Gordon, Chairman and Dr. M. Eugene Street and Mr. J. R. Blair, as members of the Executive Board.

At the suggestion of Dr. R. H. Lewis, Dr. J. E. Brooks was elected Superintendent of said Institution. This was deemed necessary in order that the Superintendent might have constant charge and oversight of the work from the beginning.

The Superintendent with the Executive Committee were authorized by the Board to investigate locations in the deep sand hills. This the Superintendent and the Executive Committee did immediately, which investigation in this section resulted in the purchase of two or three sites which were finally rejected because of some irregularities in titles. A location was finally decided upon in Cumberland County close to Moore County line and about 12 miles from Pinehurst, in what is known as the long leaf pine and deep sand hill section of North Carolina. This location is an ideal one The scenery is magnificent; the air is pure and free from humidity; no malaria, drainage perfect; with a Sanatorium site extensive enough to build an institution to take care of a thousand patients. The Committee was looking more to the future than to the present in this selection. This tract contains 936 acres with a water power in addition containing 15 acres about 2½ miles distant. This water power will be sufficient for all purposes necessary to develop the institution. This tract of land contains a site for the Sanatorium as beautiful as can be found in the State of North Carolina. It has 200 acres of farming land, good water power, and a natural park around the Sanatorium with a good farm house.

The Sanatorium building is 68x46, and has room enough to accommodate forty patients. This institution was opened November 1, 1908, and up to November 30th had five patients. These patients are charged a dollar a day, which about pays for the food they eat. No extra charge is made.

The General Assembly appropriated $15,000.00 for this building, to be expended $7,500.00 in the year 1907 and $7,500.00 in the year 1908. In addition to that, there is $5,000.00 annual maintenance. None of this maintenance was used in the year 1907.

DISBURSEMENTS FROM APPROPRIATION:

Land Purchased	$ 7,750.00
Expenses of Board	626.44
Printing Board Warrants	3.00
Attorney's Fee, Abstract of Title	52.27
Ledger	2.50
Smoak and McCreary, 1 pair of mules and 1 horse	625.00
Commercial Bank of High Point, interest	165.00
J. E. Brooks, salary for May 1, 1907 to Nov. 30, 1908	1,800.00
Household and Kitchen Furniture	446.24
Farm Expenses and Labor	577.52
Incidental Expenses, Stamps and Stationery	17.50
Architect's Fees	10.00
Buildings	2,702.08
Disinfectants	7.90
Farm Equipment, including $350.00 for fencing	1,077.68
Insurance	71.25
Cash on Deposit, Commercial National Bank, High Point, N. C.	1.81
Total	$15,936.17

VALUE OF CROP RAISED ON FARM IN 1908

650 bushels of Corn	$552.50
12 tons of Pea Hay	240.00
Fodder	100.00
150 bushels of Potatoes	100.00
Turnip Crop	50.00
	$1,042.50